

Understanding Dynamic Voltammetry in a Dissolving Microdroplet

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1 Global Definitions

1.1 PARAMETERS

PARAMETERS 1

Name	Expression	Value	Description
f	$F_{\text{const}}/R_{\text{const}}/T$	38.941 1/V	
T	298[K]	298 K	temperature
r_elec	6.35[um]	6.35E-6 m	radius of the electrode
C0	0.155[mM]	0.155 mol/m ³	initial concentration of redox (ox+red)
C0_ox_ini	$C0*0.2$	0.031 mol/m ³	initial conc. of ox in the cell
C0_red_ini	$C0*0.8$	0.124 mol/m ³	initial conc. of red in the cell
Dred	8.8e-6[cm ² /s]	8.8E-10 m ² /s	diffusion coefficient of DmFc in DCE
Dox	5.3e-6 [cm ² /s]	5.3E-10 m ² /s	diffusion coefficient of DmFc+ in DCE
alp	0.5	0.5	transfer coefficient for DmFc+/DmFc
k0	0.01[m/s]	0.01 m/s	standard rate constant of electron transfer for DmFc+/DmFc
E0	-0.04[V]	-0.04 V	apparent standard potential for DmFc+/DmFc
sr	0.2[V/s]	0.2 V/s	scan rate
Ei	-0.35[V]	-0.35 V	starting potential
Ef	0.2[V]	0.2 V	vertex potential
nb	44	44	number of CVs
t_tot	$nb^2*abs(Ei - Ef)/sr$	242 s	duration of the experiment
t_cv	t_{tot}/nb	5.5 s	duration of one CV
L	51[um]	5.1E-5 m	initial radius of the droplet
a	149[deg]	2.6005 rad	contact angle in degree
hg	$-L*\cos(a)$	4.3716E-5 m	initial height of the spherical cap
rc	$L*\cos((a - \pi/2))$	2.6267E-5 m	initial contact radius of

Name	Expression	Value	Description
			the droplet
C0_CIO4	0.01 [M]	10 mol/m ³	initial concentration of CIO4
Rs0	1E8[ohm]	1E8 Ω	initial resistance of the cell
kloss_red	0.08e-8 [m/s]	8E-10 m/s	rate of DmFc tranfert from DCE to water
kloss_ox	1.2e-8 [m/s]	1.2E-8 m/s	rate of DmFc+ tranfert from DCE to water
D_water	6E-6 [cm^2/s]	6E-10 m ² /s	diffusion coeff of DCE in water
C0_water	55 [mol/L]	55000 mol/m ³	concentration of pure water
Csat_DCEinWater	90[mM]	90 mol/m ³	concentration of DCE in water at saturation
Kp_DCE	C0_water/Csat_DCEinWater	611.11	partitioning coefficient between water and DCE
Vang	-0.043[rad/s]	-0.043 rad/s	angular dissolution rate in CCR mode
Vang_deg	-2.5[deg/s]	-0.043633 rad/s	angular dissolution rate in CCR mode
t_c	200[s]	200 s	transion time from CCA to CCR
V_ini	V_sphere-V_cap	5.4755E-13 m ³	initial volume for contact angle larger than 90 deg
V_sphere	((4/3)*pi*L^3)	5.5565E-13 m ³	volume of sphere
V_cap	((1/6)*pi*(L - hg)*(3*rc^2 + (L - hg)^2))	8.0971E-15 m ³	volume of small cap (contact angle smaller than 90 deg)
n_ini	8.48246935651237E-14 [mol]	8.4825E-14 mol	
E0ini	E0 + (R_const*T/F_const)*log((C0_ox_ini)/C0_CIO4)	-0.18833 V	

2 Component 1

Date Apr 3, 2023 2:12:39 PM

SETTINGS

Description	Value
Unit system	Same as global system (SI)
Geometry shape function	Automatic

SPATIAL FRAME COORDINATES

First	Second	Third
r	phi	z

MATERIAL FRAME COORDINATES

First	Second	Third
R	PHI	Z

GEOMETRY FRAME COORDINATES

First	Second	Third
Rg	PHI _g	Z _g

MESH FRAME COORDINATES

First	Second	Third
R _m	PHI _m	Z _m

2.1 DEFINITIONS

2.1.1 Variables

global variable

SELECTION

Geometric entity level Entire model

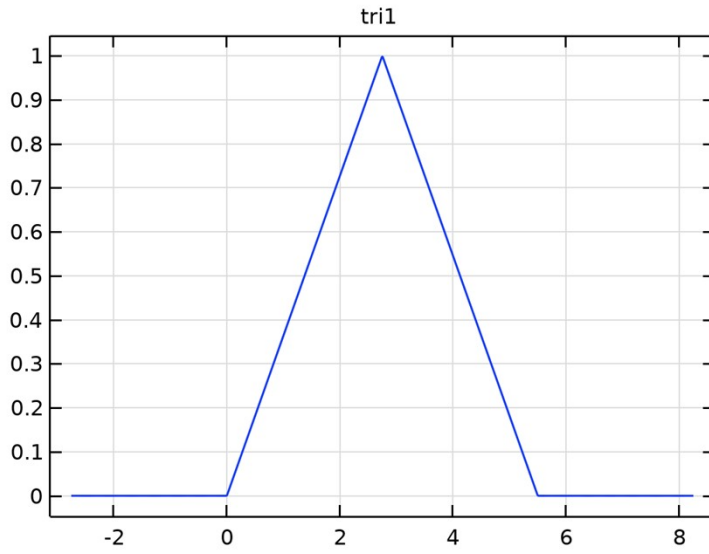
Name	Expression	Unit	Description
n _{Ox}	intop2(cOx)	mol	amount of DmFc+ inside the droplet
n _{Red}	intop2(cRed)	mol	amount of DmFc inside the droplet
Vol	intop2(1*1*1)	m ³	volume of the droplet

Name	Expression	Unit	Description
Surf	intop3(1*1)	m ²	surface of the droplet (DCE/water boundary)
h	maxop1(z)	m	droplet's height
Rc	maxop1(r)	m	droplet's radius
r_c	maxop2(r)	m	contact radius
tetha	2*atan(h/r_c)	rad	contact angle
Vr_CCR	$((r_c/\sin(\text{tetha})) * (1 - \cos(\text{tetha})) - z) * ((z/\sin(\text{tetha})) * \text{Vang}(t)) / r$	m/s	'r' component of mesh velocity in CCR
Vz_CCR	$(z/\sin(\text{tetha})) * \text{Vang}(t)$	m/s	'z' component of mesh velocity in CCR
Vr_CCA	$\text{Vn}(t) * (r/Rc)$	m/s	'r' component of mesh velocity in CCA
Vz_CCA	$\text{Vn}(t) * (z/Rc)$	m/s	'z' component of mesh velocity in CCA
DE	$\text{Rs0} * (\text{C0_ox_ini} / (\text{n_Ox/Vol} + \text{C0_ox_ini})) * \text{current}$	V	ohmic loss inside the droplet as a function of [DmFc+]
E0j	$\text{E0} + (\text{R_const} * \text{T} / \text{F_const}) * \log((\text{n_Ox/Vol} + \text{C0_ox_ini}) / \text{C0_ClO4})$	V	standard potential corrected from junction potential at water/DCE interface
current	$\text{F_const} * \text{Dred} * \text{intop1}(c\text{Redz})$	A	current at the electrode

2.1.2 Functions

Triangle 1

Function name	tri1
Function type	Triangle



Triangle 1

PARAMETERS

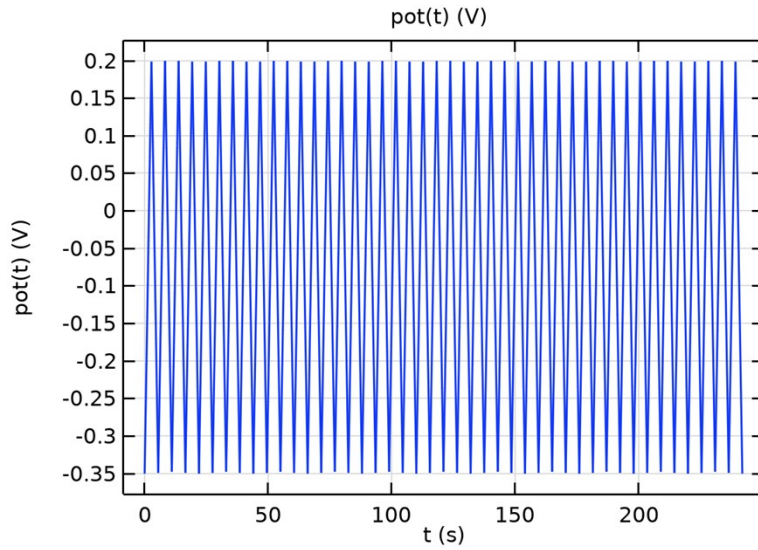
Description	Value
Lower limit	0
Upper limit	t_{tot}/nb

SMOOTHING

Description	Value
Size of transition zone	0.001

potential ramp

Function name	pot
Function type	Analytic



potential ramp

DEFINITION

Description	Value
Expression	$E_i + \text{sign}(E_f - E_i) * \text{abs}(E_i - E_f) * \text{tri1}(t)$
Arguments	t

PERIODIC EXTENSION

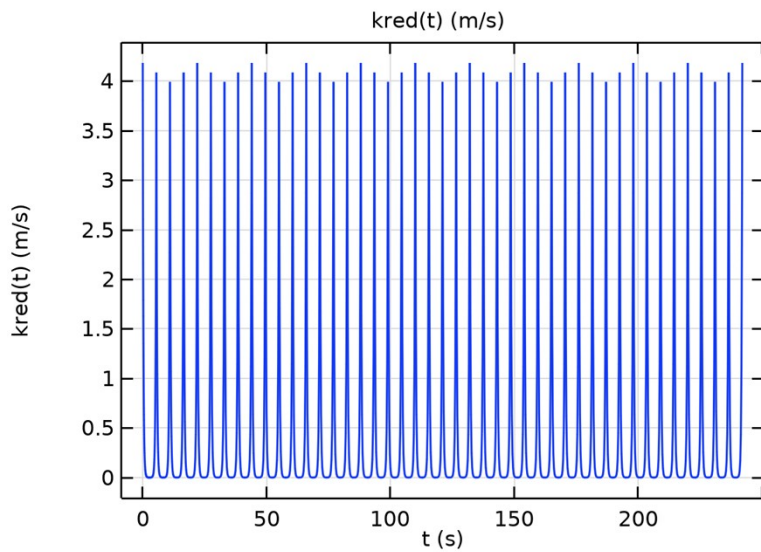
Description	Value
Make periodic	On
Lower limit	0
Upper limit	t_{tot}/nb

UNITS

Description	Value
Arguments	s
Function	V

reduction rate

Function name	kred
Function type	Analytic



reduction rate

DEFINITION

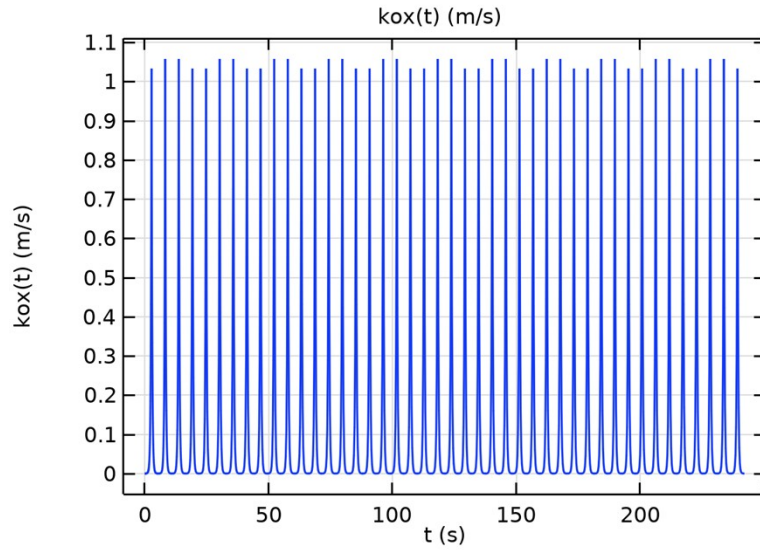
Description	Value
Expression	$k_0 \cdot \exp(-\alpha_p \cdot f \cdot (\text{pot}(t) - E_0))$
Arguments	t

UNITS

Description	Value
Arguments	s
Function	m/s

oxidation rate

Function name	kox
Function type	Analytic



oxidation rate

DEFINITION

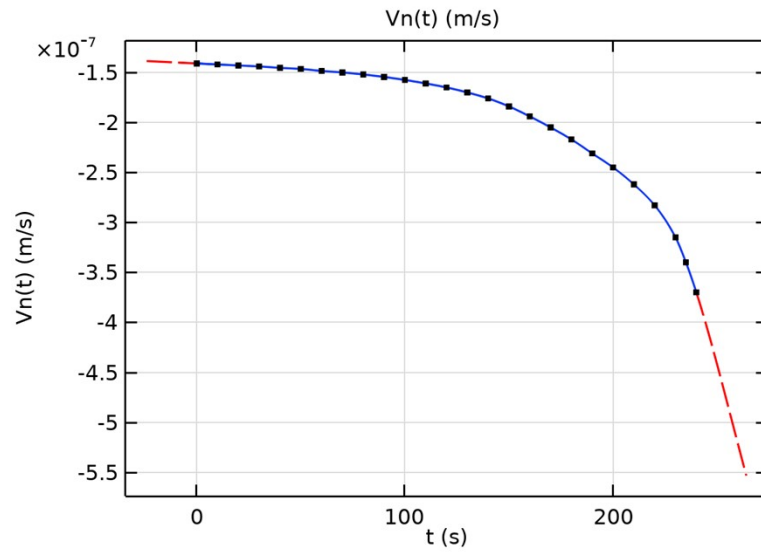
Description	Value
Expression	$k_0 \cdot \exp((1 - \alpha_p) \cdot f \cdot (\text{pot}(t) - E_0))$
Arguments	t

UNITS

Description	Value
Arguments	s
Function	m/s

Interpolation o/w velocity CCA

Function names	Vn
Function type	Interpolation



Interpolation o/w velocity CCA

INTERPOLATION AND EXTRAPOLATION

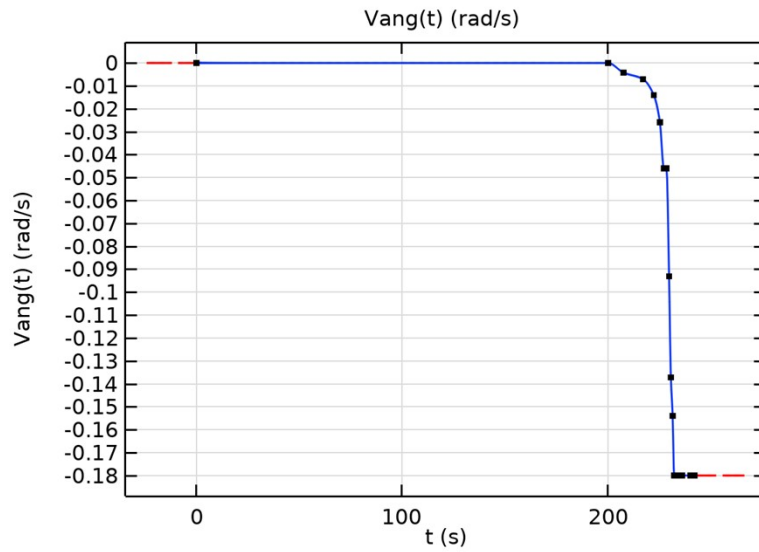
Description	Value
Interpolation	Piecewise cubic
Extrapolation	Nearest function

UNITS

Description	Value
Arguments	s
Function	m/s

Interpolation o/w velocity CCR

Function names	Vang
Function type	Interpolation



Interpolation o/w velocity CCR

INTERPOLATION AND EXTRAPOLATION

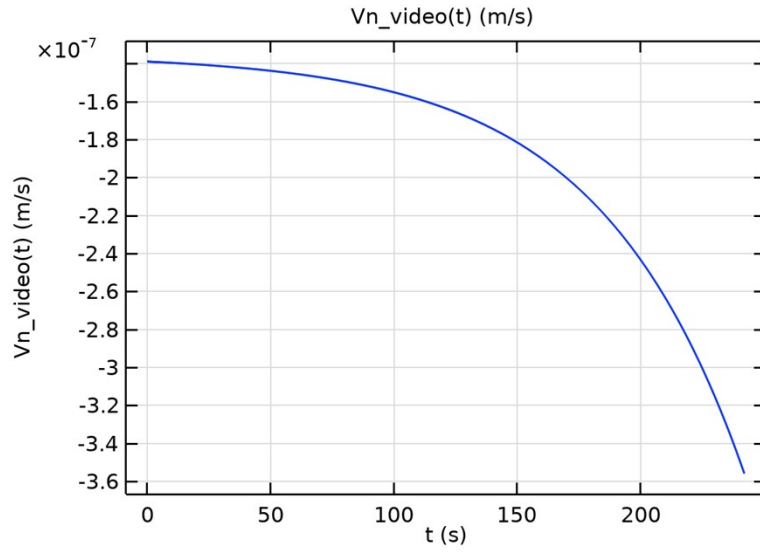
Description	Value
Interpolation	Piecewise cubic
Extrapolation	Nearest function

UNITS

Description	Value
Arguments	s
Function	rad/s

o/w velocity from video

Function name	V_n_video
Function type	Analytic



o/w velocity from video

DEFINITION

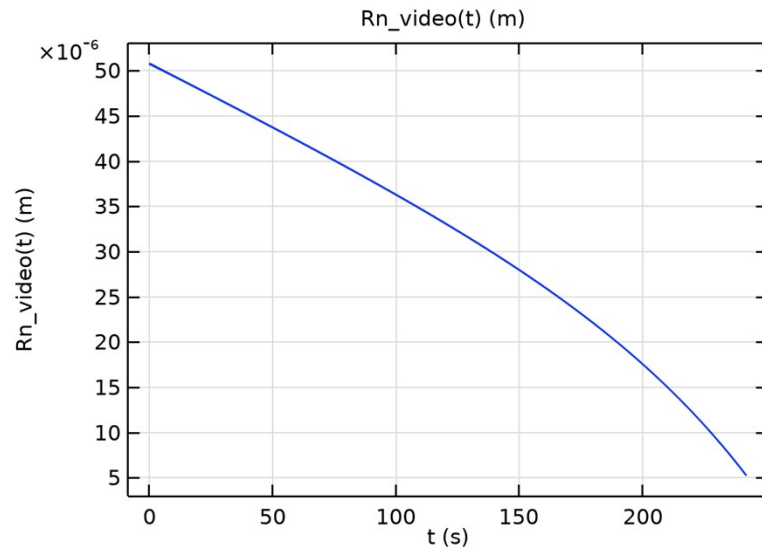
Description	Value
Expression	$-1e-6*((0.21279/58.87117)*\exp(t/58.87117) + (579735/4282415)*\exp(t/4282415))$
Arguments	t

UNITS

Description	Value
Arguments	s
Function	m/s

o/w radius from video

Function name	Rn_video
Function type	Analytic



o/w radius from video

DEFINITION

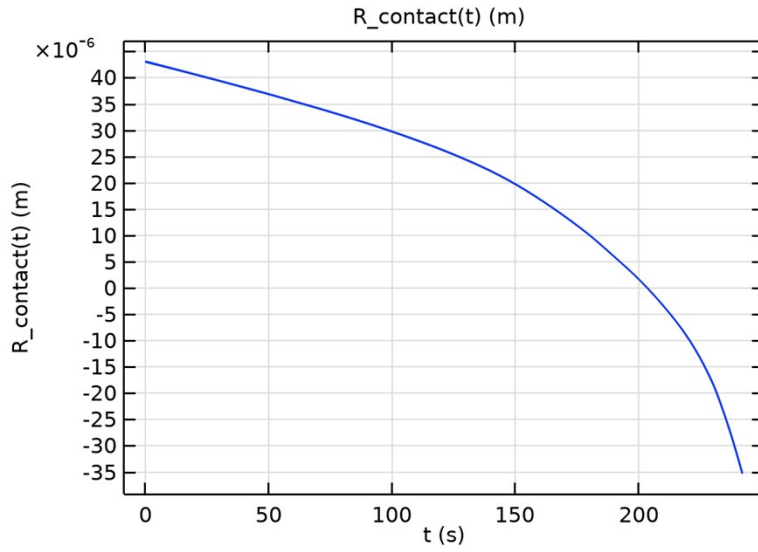
Description	Value
Expression	$1e-6*(579786 - 0.21279*\exp(t/58.87117) - 579735*\exp(t/4282415))$
Arguments	t

UNITS

Description	Value
Arguments	s
Function	m

contact radius in CCA

Function name	R_contact
Function type	Analytic



contact radius in CCA

DEFINITION

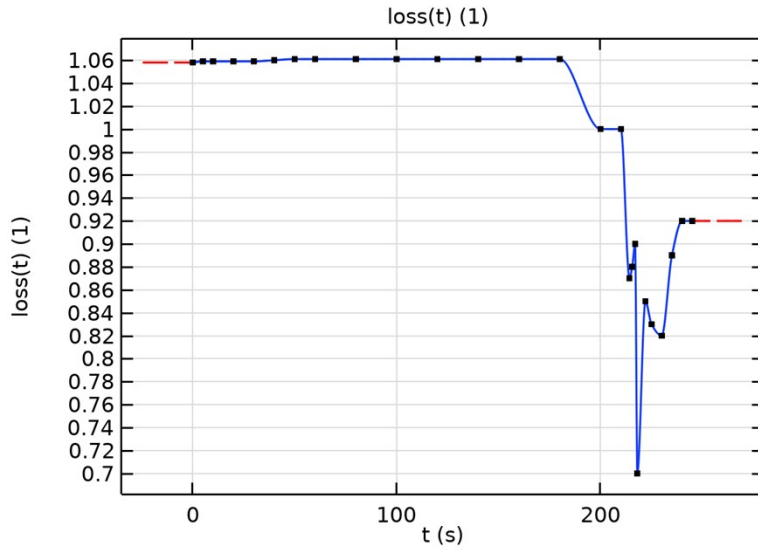
Description	Value
Expression	$(L + V_n(t) \cdot t) \cdot \cos(a - 90)$
Arguments	t

UNITS

Description	Value
Arguments	s
Function	m

compensation for mass loss

Function names	loss
Function type	Interpolation



compensation for mass loss

INTERPOLATION AND EXTRAPOLATION

Description	Value
Interpolation	Piecewise cubic

UNITS

Description	Value
Arguments	s
Function	1

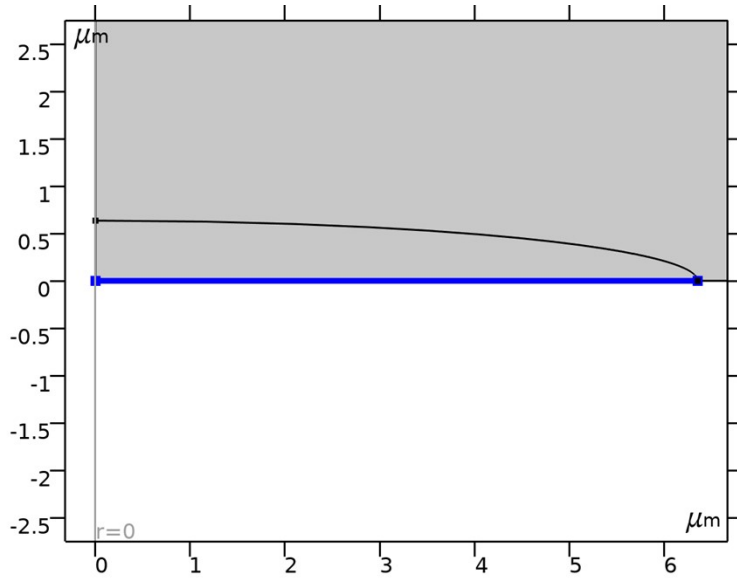
2.1.3 Nonlocal Couplings

Integration over electrode surface

Coupling type	Integration
Operator name	intop1

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundary 2



Selection

ADVANCED

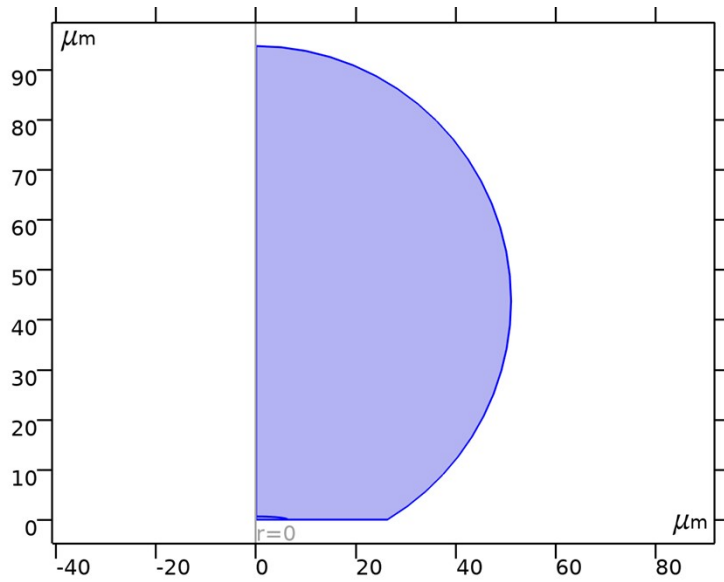
Description	Value
Compute integral in revolved geometry	On

Integration over droplet volume

Coupling type	Integration
Operator name	intop2

SELECTION

Geometric entity level	Domain
Selection	Geometry geom1: Dimension 2: Domains 1–2



Selection

ADVANCED

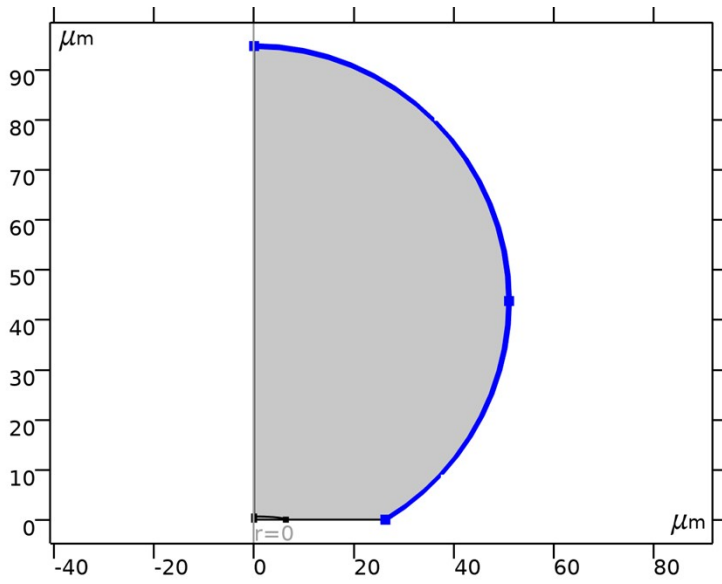
Description	Value
Compute integral in revolved geometry	On

Integration over o/w surface

Coupling type	Integration
Operator name	intop3

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundaries 6–7



Selection

ADVANCED

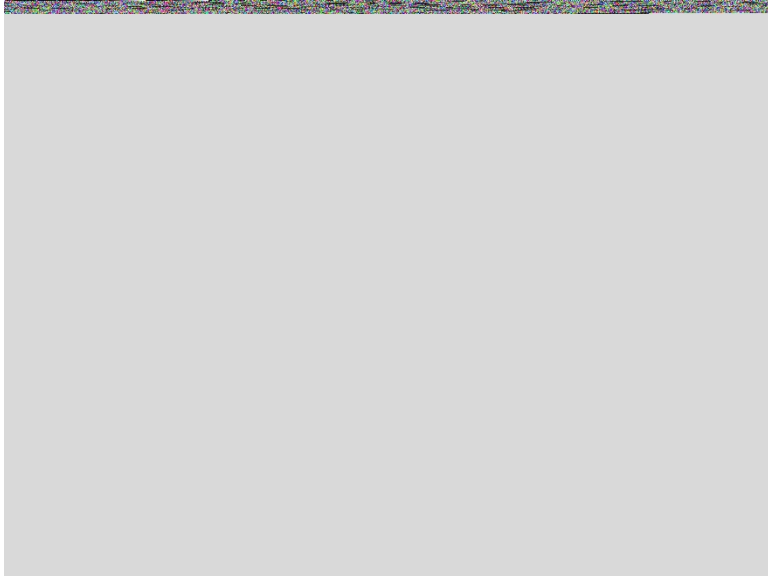
Description	Value
Compute integral in revolved geometry	On

o/w arc

Coupling type	Maximum
Operator name	maxop1

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundaries 6-7



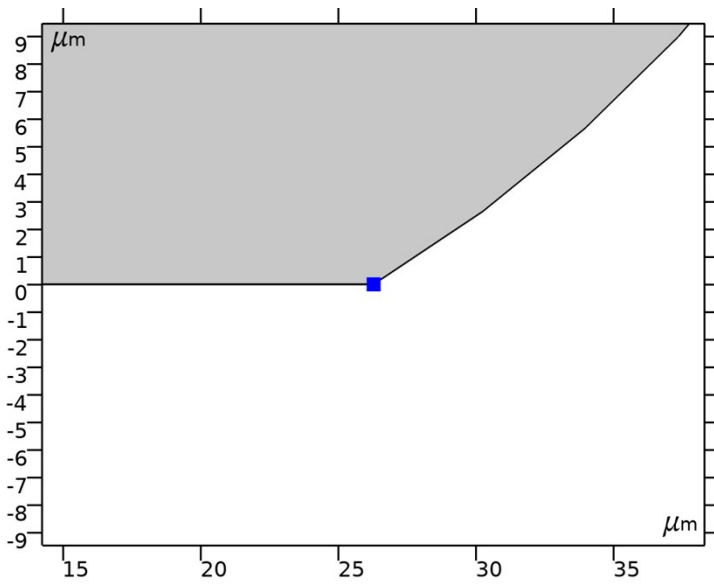
Selection

contact line

Coupling type	Maximum
Operator name	maxop2

SELECTION

Geometric entity level	Point
Selection	Geometry geom1: Dimension 0: Point 5



Selection

2.1.4 Coordinate Systems

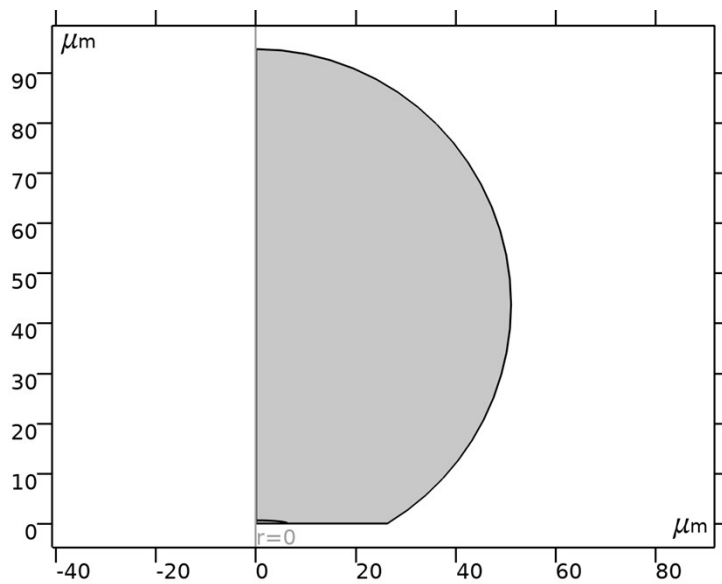
Boundary System 1

Coordinate system type	Boundary system
Tag	sys1

COORDINATE NAMES

First	Second	Third
t1	to	n

2.2 GEOMETRY 1



Geometry 1

UNITS

Length unit	μm
Angular unit	rad

GEOMETRY STATISTICS

Description	Value
Space dimension	2
Number of domains	2
Number of boundaries	7
Number of vertices	6

2.2.1 electrode (ls1)

SETTINGS

Description	Value
Specify	Coordinates
Coordinates	{0, 0}
Specify	Coordinates
Coordinates	{r_elec, 0}

2.2.2 droplet (c1)

POSITION

Description	Value
Position	{0, hg}

SIZE AND SHAPE

Description	Value
Radius	L
Sector angle	360

2.2.3 fixed diffusion layer (e1)

POSITION

Description	Value
Position	{0, 0}

SIZE AND SHAPE

Description	Value
a-semiaxis	1.0*r_elec
b-semiaxis	0.1*r_elec
Sector angle	360

2.2.4 Rectangle for subtraction (r1)

POSITION

Description	Value
Position	{-10*L, -10*L}

SIZE

Description	Value
Width	20*L
Height	10*L

2.2.5 Rectangle for subtraction 1 (r2)

POSITION

Description	Value
Position	{-L, L}
Base	Center

SIZE

Description	Value
Width	2*L
Height	2*L

2.3 TRANSPORT OF DILUTED SPECIES IN DROPLET

USED PRODUCTS

COMSOL Multiphysics
Chemical Reaction Engineering Module



Transport of Diluted Species in droplet

SELECTION

Geometric entity level	Domain
Selection	Geometry geom1: Dimension 2: Domains 1-2

EQUATIONS

$$\frac{\partial c_i}{\partial t} + \nabla \cdot \mathbf{J}_i = R_i$$
$$\mathbf{J}_i = -D_i \nabla c_i$$

2.3.1 Interface Settings

Discretization

SETTINGS

Description	Value
Concentration	Linear

Transport Mechanisms

SETTINGS

Description	Value
Convection	Off
Migration in electric field	Off
Mass transfer in porous media	Off

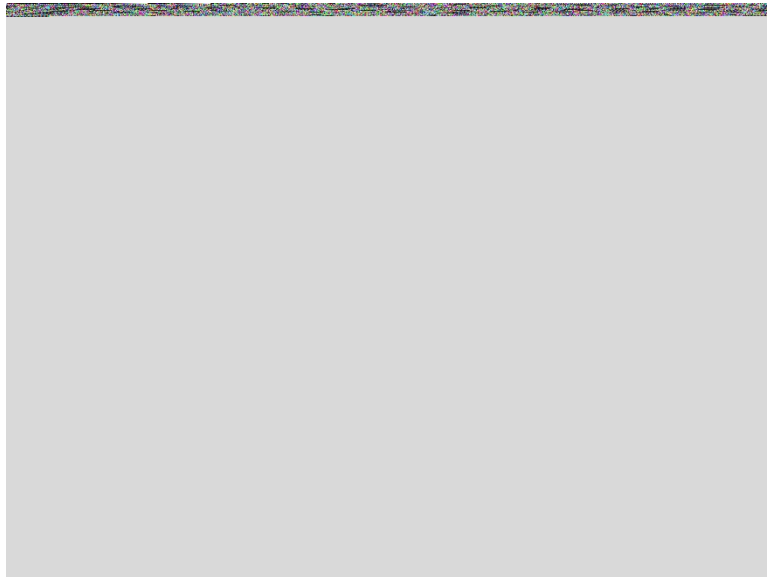
2.3.2 Variables

Name	Expression	Unit	Description	Selection	Details
tds.R_cOx	0	mol/(m ³ ·s)	Total rate expression	Domains 1–2	+ operation
tds.cP_cOx	0	mol/kg	Concentration species absorbed to the solid	Domains 1–2	+ operation
tds.cP_cOx	0	mol/kg	Concentration species absorbed to the solid	Boundaries 1–7	+ operation
tds.KP_cOx	0	m ³ /kg	Adsorption isotherm, first concentration derivative	Domains 1–2	+ operation
tds.KP_cOx	0	m ³ /kg	Adsorption isotherm, first concentration derivative	Boundaries 1–7	+ operation
tds.R_cRed	0	mol/(m ³ ·s)	Total rate expression	Domains 1–2	+ operation
tds.cP_cRed	0	mol/kg	Concentration species absorbed to the solid	Domains 1–2	+ operation
tds.cP_cRed	0	mol/kg	Concentration species absorbed to the solid	Boundaries 1–7	+ operation
tds.KP_cRed	0	m ³ /kg	Adsorption isotherm, first	Domains 1–2	+ operation

Name	Expression	Unit	Description	Selection	Details
			concentration derivative		
tds.KP_cRed	0	m ³ /kg	Adsorption isotherm, first concentration derivative	Boundaries 1–7	+ operation
tds.poro	1	1	Porosity	Domains 1–2	
tds.theta_g	0	1	Gas volume fraction	Domains 1–2	
tds.theta	tds.poro	1	Mobile fluid volume fraction	Domains 1–2	
tds.nr	nr	1	Normal vector, r component	Boundary 5	
tds.nphi	0	1	Normal vector, phi component	Boundary 5	
tds.nz	nz	1	Normal vector, z component	Boundary 5	
tds.nr	dnr	1	Normal vector, r component	Boundaries 1–4, 6–7	
tds.nphi	0	1	Normal vector, phi component	Boundaries 1–4, 6–7	
tds.nz	dnz	1	Normal vector, z component	Boundaries 1–4, 6–7	
tds.nrmesh	nrmesh	1	Normal vector (mesh), r component	Boundary 5	
tds.nphimesh	0	1	Normal vector (mesh), phi component	Boundary 5	
tds.nzmesh	nzmesh	1	Normal vector (mesh), z component	Boundary 5	
tds.nrmesh	dnrmesh	1	Normal vector (mesh), r component	Boundaries 1–4, 6–7	
tds.nphimesh	0	1	Normal vector (mesh), phi component	Boundaries 1–4, 6–7	
tds.nzmesh	dnzmesh	1	Normal vector (mesh), z component	Boundaries 1–4, 6–7	
tds.nrc	root.nrc/tds.ncLen	1	Normal vector, r	Boundaries 1–	

Name	Expression	Unit	Description	Selection	Details
			component	7	
tds.nphic	0	1	Normal vector, phi component	Boundaries 1–7	
tds.nzc	root.nzc/tds.ncLen	1	Normal vector, z component	Boundaries 1–7	
tds.ncLen	sqrt(root.nrc^2+root.nzc^2+eps)	1	Help variable	Boundaries 1–7	

2.3.3 Transport Properties 1



Transport Properties 1

SELECTION

Geometric entity level	Domain
Selection	Geometry geom1: Dimension 2: All domains

EQUATIONS

$$\frac{\partial c_i}{\partial t} + \nabla \cdot \mathbf{J}_i = R_i$$

$$\mathbf{J}_i = -D_i \nabla c_i$$

Diffusion

SETTINGS

Description	Value
Source	Material
Material	None

Description	Value
Diffusion coefficient	User defined
Diffusion coefficient	{{Dox, 0, 0}, {0, Dox, 0}, {0, 0, Dox}}
Diffusion coefficient	User defined
Diffusion coefficient	{{Dred, 0, 0}, {0, Dred, 0}, {0, 0, Dred}}

Coordinate System Selection

SETTINGS

Description	Value
Coordinate system	Global coordinate system

Model Input

SETTINGS

Description	Value
Temperature	User defined
Temperature	T

Variables

Name	Expression	Unit	Description	Selection	Details
domflux.cOxr	$2 * tds.dflux_cOxr * \pi * r$	mol/(m·s)	Domain flux, r component	Domains 1–2	
domflux.cOxz	$2 * tds.dflux_cOxz * \pi * r$	mol/(m·s)	Domain flux, z component	Domains 1–2	
domflux.cRedr	$2 * tds.dflux_cRedr * \pi * r$	mol/(m·s)	Domain flux, r component	Domains 1–2	
domflux.cRedz	$2 * tds.dflux_cRedz * \pi * r$	mol/(m·s)	Domain flux, z component	Domains 1–2	
tds.ndflux_cOx	tds.bndFlux_cOx	mol/(m ² ·s)	Normal diffusive flux	Boundaries 2, 4–7	
tds.ntflux_cOx	tds.bndFlux_cOx	mol/(m ² ·s)	Normal total flux	Boundaries 2, 4–7	
tds.ndflux_cRed	tds.bndFlux_cRed	mol/(m ² ·s)	Normal diffusive flux	Boundaries 2, 4–7	
tds.ntflux_cRed	tds.bndFlux_cRed	mol/(m ² ·s)	Normal total flux	Boundaries 2, 4–7	
tds.D_cOxrr	Dox	m ² /s	Diffusion coefficient, rr component	Domains 1–2	
tds.D_cOxphir	0	m ² /s	Diffusion coefficient, phir	Domains 1–2	

Name	Expression	Unit	Description	Selection	Details
			component		
tds.D_cOx zr	0	m ² /s	Diffusion coefficient, zr component	Domains 1–2	
tds.D_cOxr phi	0	m ² /s	Diffusion coefficient, rphi component	Domains 1–2	
tds.D_cOx phi phi	Dox	m ² /s	Diffusion coefficient, phi phi component	Domains 1–2	
tds.D_cOx z phi	0	m ² /s	Diffusion coefficient, zphi component	Domains 1–2	
tds.D_cOx rz	0	m ² /s	Diffusion coefficient, rz component	Domains 1–2	
tds.D_cOx phi z	0	m ² /s	Diffusion coefficient, phi z component	Domains 1–2	
tds.D_cOx zz	Dox	m ² /s	Diffusion coefficient, zz component	Domains 1–2	
tds.D_cRed rr	Dred	m ² /s	Diffusion coefficient, rr component	Domains 1–2	
tds.D_cRed phi r	0	m ² /s	Diffusion coefficient, phi r component	Domains 1–2	
tds.D_cRed zr	0	m ² /s	Diffusion coefficient, zr component	Domains 1–2	
tds.D_cRed r phi	0	m ² /s	Diffusion coefficient, rphi component	Domains 1–2	
tds.D_cRed phi phi	Dred	m ² /s	Diffusion coefficient, phi phi component	Domains 1–2	
tds.D_cRed z phi	0	m ² /s	Diffusion coefficient, zphi component	Domains 1–2	
tds.D_cRed rz	0	m ² /s	Diffusion	Domains 1–2	

Name	Expression	Unit	Description	Selection	Details
			coefficient, rz component		
tds.D_cRedphiz	0	m ² /s	Diffusion coefficient, phiz component	Domains 1–2	
tds.D_cRedzz	Dred	m ² /s	Diffusion coefficient, zz component	Domains 1–2	
tds.Dav_cOx	0.5*(tds.D_cOxrr+tds.D_cOxzz)	m ² /s	Average diffusion coefficient	Domains 1–2	
tds.Dav_cRed	0.5*(tds.D_cRedrr+tds.D_cRedzz)	m ² /s	Average diffusion coefficient	Domains 1–2	
tds.tflux_cOxr	tds.dflux_cOxr	mol/(m ² ·s)	Total flux, r component	Domains 1–2	+ operation
tds.tflux_cOxphi	tds.dflux_cOxphi	mol/(m ² ·s)	Total flux, phi component	Domains 1–2	+ operation
tds.tflux_cOxz	tds.dflux_cOxz	mol/(m ² ·s)	Total flux, z component	Domains 1–2	+ operation
tds.dfluxMag_cOx	sqrt(tds.dflux_cOxr ² +tds.dflux_cOxphi ² +tds.dflux_cOxz ²)	mol/(m ² ·s)	Diffusive flux magnitude	Domains 1–2	
tds.tfluxMag_cOx	sqrt(tds.tflux_cOxr ² +tds.tflux_cOxphi ² +tds.tflux_cOxz ²)	mol/(m ² ·s)	Total flux magnitude	Domains 1–2	
tds.dpflux_cOxr	0	mol/(m ² ·s)	Dispersive flux, r component	Domains 1–2	
tds.dpflux_cOxphi	0	mol/(m ² ·s)	Dispersive flux, phi component	Domains 1–2	
tds.dpflux_cOxz	0	mol/(m ² ·s)	Dispersive flux, z component	Domains 1–2	
tds.tflux_cRedr	tds.dflux_cRedr	mol/(m ² ·s)	Total flux, r component	Domains 1–2	+ operation
tds.tflux_cRedphi	tds.dflux_cRedphi	mol/(m ² ·s)	Total flux, phi component	Domains 1–2	+ operation
tds.tflux_cRedz	tds.dflux_cRedz	mol/(m ² ·s)	Total flux, z component	Domains 1–2	+ operation
tds.dfluxMag_cRed	sqrt(tds.dflux_cRedr ² +tds.dflux_cRedphi ² +tds.dflux_cRedz ²)	mol/(m ² ·s)	Diffusive flux magnitude	Domains 1–2	
tds.tfluxMag_cRed	sqrt(tds.tflux_cRedr ² +tds.tflux_cRedphi ² +tds.tflux_cRedz ²)	mol/(m ² ·s)	Total flux	Domains 1–2	

Name	Expression	Unit	Description	Selection	Details
d	$\sqrt{2 + \text{tds.tflux_cRedp}^2 + \text{tds.tflux_cRed}^2}$		magnitude		
tds.dpflux_cRedr	0	mol/(m ² .s)	Dispersive flux, r component	Domains 1–2	
tds.dpflux_cRedphi	0	mol/(m ² .s)	Dispersive flux, phi component	Domains 1–2	
tds.dpflux_cRedz	0	mol/(m ² .s)	Dispersive flux, z component	Domains 1–2	
cOxrt	$\frac{d}{dt}(\text{cOxrTIME} - \text{cOxrr} \cdot d(r, \text{TIME}) - \text{cOxrz} \cdot d(z, \text{TIME}))$	mol/(m ⁴ .s)	Gradient of cOx, r component, first time derivative	Domains 1–2	
cOxzt	$\frac{d}{dt}(\text{cOxzTIME} - \text{cOx zr} \cdot d(r, \text{TIME}) - \text{cOx zz} \cdot d(z, \text{TIME}))$	mol/(m ⁴ .s)	Gradient of cOx, z component, first time derivative	Domains 1–2	
cOxr tt	$\frac{d}{dt}(\frac{d}{dt}(\text{cOxrTIME} - \text{cOx rr} \cdot d(r, \text{TIME}) - \text{cOx rz} \cdot d(z, \text{TIME})), \text{TIME}) - \frac{d}{dt}(\text{cOxrTIME} - \text{cOx rr} \cdot d(r, \text{TIME}) - \text{cOx rz} \cdot d(z, \text{TIME}), r) \cdot d(r, \text{TIME}) - \frac{d}{dt}(\text{cOxrTIME} - \text{cOx rr} \cdot d(r, \text{TIME}) - \text{cOx rz} \cdot d(z, \text{TIME}), z) \cdot d(z, \text{TIME}))$	mol/(m ⁴ .s ²)	Gradient of cOx, r component, second time derivative	Domains 1–2	
cOxz tt	$\frac{d}{dt}(\frac{d}{dt}(\text{cOxzTIME} - \text{cOx zr} \cdot d(r, \text{TIME}) - \text{cOx zz} \cdot d(z, \text{TIME})), \text{TIME}) - \frac{d}{dt}(\text{cOxzTIME} - \text{cOx zr} \cdot d(r, \text{TIME}) - \text{cOx zz} \cdot d(z, \text{TIME}), r) \cdot d(r, \text{TIME}) - \frac{d}{dt}(\text{cOxzTIME} - \text{cOx zr} \cdot d(r, \text{TIME}) - \text{cOx zz} \cdot d(z, \text{TIME}), z) \cdot d(z, \text{TIME}))$	mol/(m ⁴ .s ²)	Gradient of cOx, z component, second time derivative	Domains 1–2	
cOxt	$\frac{d}{dt}(\text{cOxTIME} - \text{cOxr} \cdot d(r, \text{TIME}) - \text{cOxz} \cdot d(z, \text{TIME}))$	mol/(m ³ .s)	Concentration, first time derivative	Domains 1–2	
cOxtt	$\frac{d}{dt}(\frac{d}{dt}(\text{cOxTIME} - \text{cOxr} \cdot d(r, \text{TIME}) - \text{cOxz} \cdot d(z, \text{TIME})), \text{TIME})$	mol/(m ³ .s ²)	Concentration, second time derivative	Domains 1–2	

Name	Expression	Unit	Description	Selection	Details
	$)-d(cOxTIME-cOxr*d(r,TIME)-cOxz*d(z,TIME),r)*d(r,TIME)-d(cOxTIME-cOxr*d(r,TIME)-cOxz*d(z,TIME),z)*d(z,TIME)$				
tds.dflux_cOxr	$-tds.D_cOxr*cOxr-tds.D_cOxrz*cOxz$	mol/(m ² .s)	Diffusive flux, r component	Domains 1–2	
tds.dflux_cOxphi	$-tds.D_cOxphir*cOxr-tds.D_cOxphiz*cOxz$	mol/(m ² .s)	Diffusive flux, phi component	Domains 1–2	
tds.dflux_cOxz	$-tds.D_cOx zr*cOxr-tds.D_cOx zz*cOxz$	mol/(m ² .s)	Diffusive flux, z component	Domains 1–2	
tds.grad_cOxr	cOxr	mol/m ⁴	Concentration gradient, r component	Domains 1–2	
tds.grad_cOxphi	0	mol/m ⁴	Concentration gradient, phi component	Domains 1–2	
tds.grad_cOxz	cOxz	mol/m ⁴	Concentration gradient, z component	Domains 1–2	
cRedrt	$cRedrTIME-cRedrr*d(r,TIME)-cRedrz*d(z,TIME)$	mol/(m ⁴ .s)	Gradient of cRed, r component, first time derivative	Domains 1–2	
cRedzt	$cRedzTIME-cRedzr*d(r,TIME)-cRedzz*d(z,TIME)$	mol/(m ⁴ .s)	Gradient of cRed, z component, first time derivative	Domains 1–2	
cRedrtt	$d(cRedrTIME-cRedrr*d(r,TIME)-cRedrz*d(z,TIME),TIME)-d(cRedrTIME-cRedrr*d(r,TIME)-cRedrz*d(z,TIME),r)*d(r,TIME)-d(cRedrTIME-cRedrr*d(r,TIME)-cRedrz*d(z,TIME),z)*d(z,TIME)$	mol/(m ⁴ .s ²)	Gradient of cRed, r component, second time derivative	Domains 1–2	
cRedztt	$d(cRedzTIME-cRedzr*d(r,TIME)-$	mol/(m ⁴ .s ²)	Gradient of cRed, z component,	Domains 1–2	

Name	Expression	Unit	Description	Selection	Details
	$cRedz \cdot d(z, TIME) - d(cRedz \cdot TIME - cRedz \cdot d(r, TIME) - cRedz \cdot d(z, TIME), r) \cdot d(r, TIME) - d(cRedz \cdot TIME - cRedz \cdot d(r, TIME) - cRedz \cdot d(z, TIME), z) \cdot d(z, TIME)$		second time derivative		
cRedt	$cRed \cdot TIME - cRedr \cdot d(r, TIME) - cRedz \cdot d(z, TIME)$	mol/(m ³ ·s)	Concentration, first time derivative	Domains 1–2	
cRedtt	$d(cRed \cdot TIME - cRedr \cdot d(r, TIME) - cRedz \cdot d(z, TIME), TIME) - d(cRed \cdot TIME - cRedr \cdot d(r, TIME) - cRedz \cdot d(z, TIME), r) \cdot d(r, TIME) - d(cRed \cdot TIME - cRedr \cdot d(r, TIME) - cRedz \cdot d(z, TIME), z) \cdot d(z, TIME)$	mol/(m ³ ·s ²)	Concentration, second time derivative	Domains 1–2	
tds.dflux_cRedr	$- tds.D_cRedr \cdot cRedr - tds.D_cRedz \cdot cRedz$	mol/(m ² ·s)	Diffusive flux, r component	Domains 1–2	
tds.dflux_cRedphi	$- tds.D_cRedphi \cdot cRedr - tds.D_cRedz \cdot cRedz$	mol/(m ² ·s)	Diffusive flux, phi component	Domains 1–2	
tds.dflux_cRedz	$- tds.D_cRedz \cdot cRedr - tds.D_cRedz \cdot cRedz$	mol/(m ² ·s)	Diffusive flux, z component	Domains 1–2	
tds.grad_cRedr	cRedr	mol/m ⁴	Concentration gradient, r component	Domains 1–2	
tds.grad_cRedphi	0	mol/m ⁴	Concentration gradient, phi component	Domains 1–2	
tds.grad_cRedz	cRedz	mol/m ⁴	Concentration gradient, z component	Domains 1–2	
tds.bndFlux_cOx	if(r>0.001/sqrt(sqrt(mol/(m ² ·s)	Boundary flux	Boundaries 1–	

Name	Expression	Unit	Description	Selection	Details
	$\text{mean}(\text{emetric}2)),-0.5*\text{dflux_spatial}(\text{cOx})/(\text{pi}*r),\text{NaN})$			4, 6–7	
tds.bndFlux_cOx	$\text{if}(r>0.001/\text{sqrt}(\text{sqrt}(\text{mean}(\text{emetric}2))),0.25*(\text{uflux_spatial}(\text{cOx})-\text{dflux_spatial}(\text{cOx}))/(\text{pi}*r),\text{NaN})$	$\text{mol}/(\text{m}^2\cdot\text{s})$	Boundary flux	Boundary 5	
tds.bndFlux_cRed	$\text{if}(r>0.001/\text{sqrt}(\text{sqrt}(\text{mean}(\text{emetric}2))),-0.5*\text{dflux_spatial}(\text{cRed})/(\text{pi}*r),\text{NaN})$	$\text{mol}/(\text{m}^2\cdot\text{s})$	Boundary flux	Boundaries 1–4, 6–7	
tds.bndFlux_cRed	$\text{if}(r>0.001/\text{sqrt}(\text{sqrt}(\text{mean}(\text{emetric}2))),0.25*(\text{uflux_spatial}(\text{cRed})-\text{dflux_spatial}(\text{cRed}))/(\text{pi}*r),\text{NaN})$	$\text{mol}/(\text{m}^2\cdot\text{s})$	Boundary flux	Boundary 5	
tds.Res_cOx	$\text{d}(\text{cOx},\text{TIME})-\text{d}(\text{cOx},r)*\text{d}(r,\text{TIME})-\text{d}(\text{cOx},z)*\text{d}(z,\text{TIME})-\text{tds.R_cOx}$	$\text{mol}/(\text{m}^3\cdot\text{s})$	Equation residual	Domains 1–2	
tds.Res_cRed	$\text{d}(\text{cRed},\text{TIME})-\text{d}(\text{cRed},r)*\text{d}(r,\text{TIME})-\text{d}(\text{cRed},z)*\text{d}(z,\text{TIME})-\text{tds.R_cRed}$	$\text{mol}/(\text{m}^3\cdot\text{s})$	Equation residual	Domains 1–2	

Shape functions

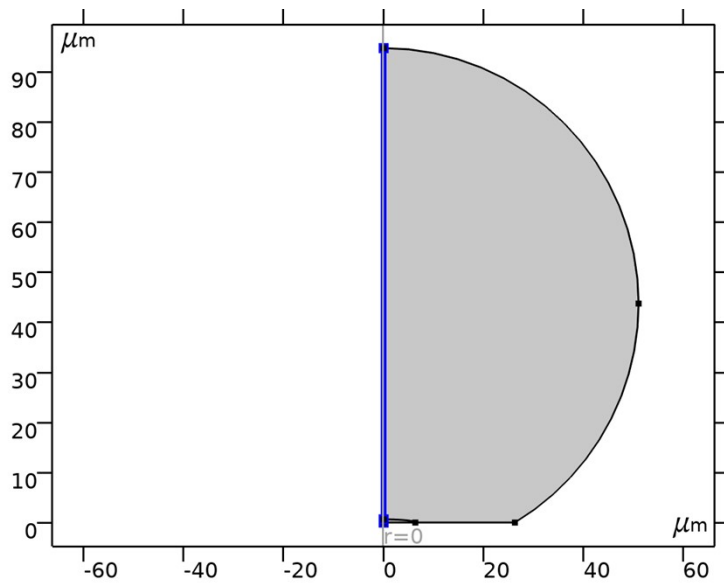
Name	Shape function	Unit	Description	Shape frame	Selection
cOx	Lagrange (Linear)	mol/m^3	Concentration	Spatial	Domains 1–2
cRed	Lagrange (Linear)	mol/m^3	Concentration	Spatial	Domains 1–2

Weak Expressions

Weak expression	Integration order	Integration frame	Selection
$2*(-(\text{cOx}\text{TIME}-\text{cOxr}*d(r,\text{TIME})-\text{cOxz}*d(z,\text{TIME}))*\text{test}(\text{cOx})+\text{tds.dflux_cOxr}*\text{test}(\text{cOxr})+\text{tds.dflux_cOxz}*\text{test}(\text{cOxz}))*\text{pi}*r$	2	Spatial	Domains 1–2
$2*(-(\text{cRed}\text{TIME}-\text{cRedr}*d(r,\text{TIME})-\text{cRedz}*d(z,\text{TIME}))*\text{test}(\text{cRed})+\text{tds.dflux_cRedr}*\text{test}(\text{cRedr})+\text{tds.dflux_cRedz}*\text{test}(\text{cRedz}))*\text{pi}*r$	2	Spatial	Domains 1–2

Weak expression	Integration order	Integration frame	Selection
$2 \cdot \text{tds.streamline}(\text{isScalingSystemDmain}==0) \cdot \pi \cdot r$	2	Spatial	Domains 1-2
$2 \cdot \text{tds.crosswind}(\text{isScalingSystemDmain}==0) \cdot \pi \cdot r$	4	Spatial	Domains 1-2

2.3.4 Axial Symmetry 1

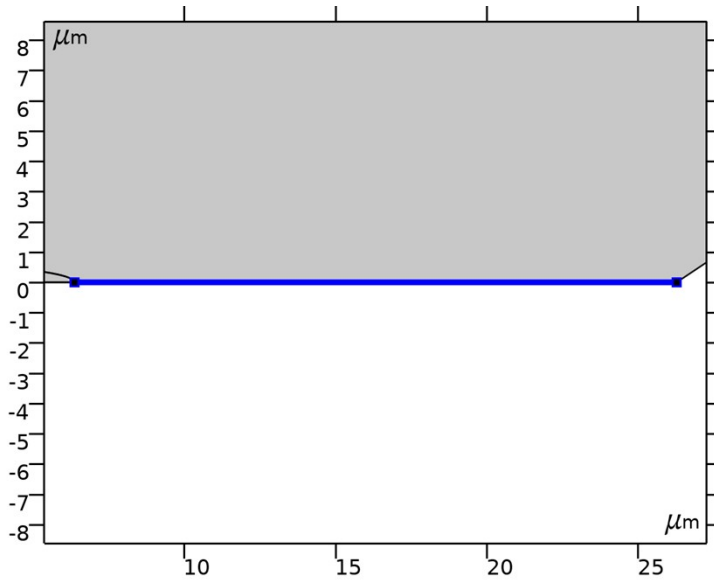


Axial Symmetry 1

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: All boundaries

2.3.5 No Flux 1



No Flux 1

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: All boundaries

EQUATIONS

$$-\mathbf{n} \cdot \mathbf{J}_j = 0$$

2.3.6 Initial Values in DCE



Initial Values in DCE

SELECTION

Geometric entity level	Domain
Selection	Geometry geom1: Dimension 2: All domains

Initial Values

SETTINGS

Description	Value
Concentration	{C0_ox_ini, C0_red_ini}

2.3.7 Flux at electrode (E0 & ohm corrections)



Flux at electrode (E0 & ohm corrections)

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundary 2

EQUATIONS

$$-\mathbf{n} \cdot \mathbf{J}_i = j_{0i}$$

Inward Flux

SETTINGS

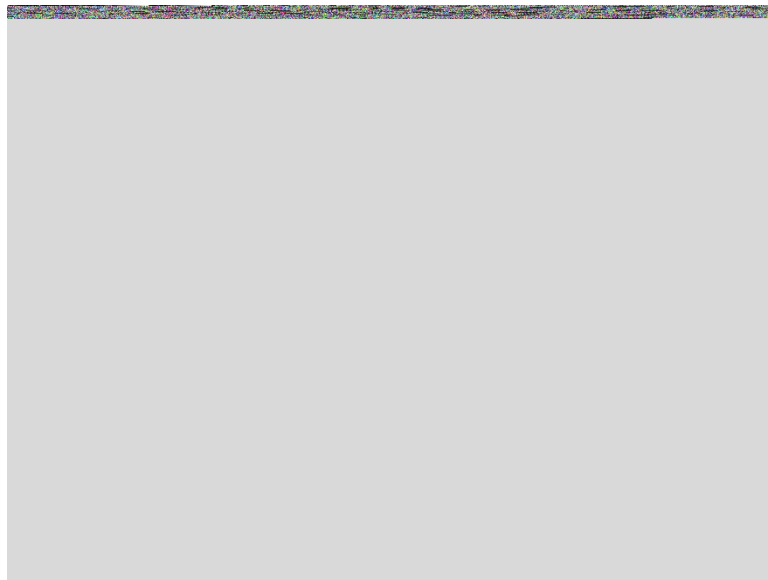
Description	Value
Flux type	General inward flux
Species cOx	On
Species cRed	On

Description	Value
	$\{(k_0 \exp((1 - \alpha) f(\text{pot}(t) - E_{0j} - DE))) c_{\text{Red}} - (k_0 \exp(-\alpha f(\text{pot}(t) - E_{0j} - DE))) c_{\text{Ox}}\}, -$ $(k_0 \exp((1 - \alpha) f(\text{pot}(t) - E_{0j} - DE))) c_{\text{Red}} - (k_0 \exp(-\alpha f(\text{pot}(t) - E_{0j} - DE))) c_{\text{Ox}}\}$

Weak Expressions

Weak expression	Integration order	Integration frame	Selection
$2 * k_0 * (\exp((1 - \alpha) f(\text{pot}(t) - E_{0j} - DE))) c_{\text{Red}} - \exp(-\alpha f(\text{pot}(t) - E_{0j} - DE)) * c_{\text{Ox}} * \text{test}(c_{\text{Ox}}) * \pi * r$	2	Spatial	Boundary 2
$-2 * k_0 * (\exp((1 - \alpha) f(\text{pot}(t) - E_{0j} - DE))) c_{\text{Red}} - \exp(-\alpha f(\text{pot}(t) - E_{0j} - DE)) * c_{\text{Ox}} * \text{test}(c_{\text{Red}}) * \pi * r$	2	Spatial	Boundary 2

2.3.8 Flux at o/w boundary



Flux at o/w boundary

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundaries 6–7

EQUATIONS

$$-\mathbf{n} \cdot \mathbf{J}_i = J_{oi}$$

Inward Flux

SETTINGS

Description	Value
Flux type	General inward flux

Description	Value
Species cOx	On
Species cRed	On
	{loss(t)* (if(r_c > 1.25*r_elec, -Vn(t), sqrt(Vr_CCR^2 + Vz_CCR^2))*cOx) - kloss_ox*cOx, loss(t)* (if(r_c > 1.25*r_elec, -Vn(t), sqrt(Vr_CCR^2 + Vz_CCR^2))*cRed) - kloss_red*cRed}

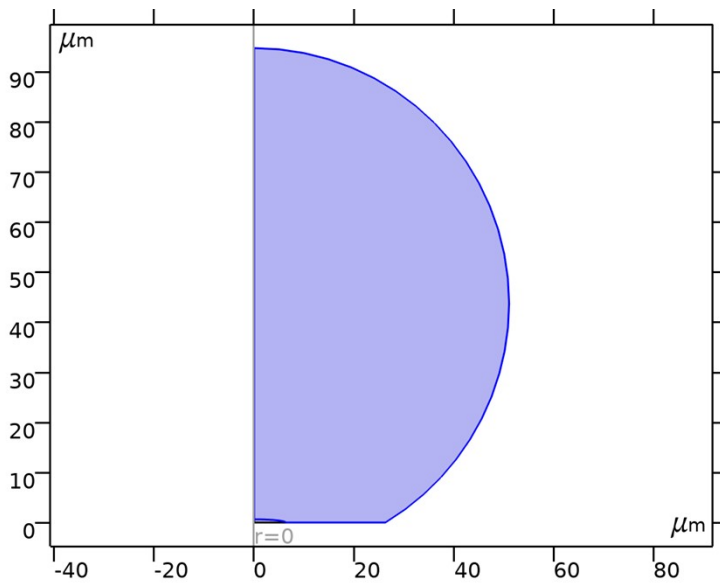
Weak Expressions

Weak expression	Integration order	Integration frame	Selection
$2*cOx*(loss(t)*if(r_c>1.25*r_elec, -Vn(t),sqrt(Vr_CCR^2+Vz_CCR^2))-kloss_ox)*test(cOx)*pi*r$	2	Spatial	Boundaries 6–7
$2*cRed*(loss(t)*if(r_c>1.25*r_elec, -Vn(t),sqrt(Vr_CCR^2+Vz_CCR^2))-kloss_red)*test(cRed)*pi*r$	2	Spatial	Boundaries 6–7

2.4 MOVING MESH

USED PRODUCTS

COMSOL Multiphysics



Moving Mesh

SELECTION

Geometric entity level	Domain
Selection	Geometry geom1: Dimension 2: Domain 2

2.4.1 Interface Settings

Frame Settings

SETTINGS

Description	Value
Geometry shape function	1

Legacy Functionality (Development Only)

SETTINGS

Description	Value
Use legacy moving frame functionality	Off

2.4.2 Variables

Name	Expression	Unit	Description	Selection	Details
ale.nR	nR		Normal vector, R component	Boundaries 3–7	Meta
ale.nPHI	root.nPHI		Normal vector, PHI component	Boundaries 3–7	Meta
ale.nZ	nZ		Normal vector, Z component	Boundaries 3–7	Meta
ale.nRmesh	nRmesh		Normal vector (mesh), R component	Boundaries 3–7	Meta
ale.nPHImesh	root.nPHImesh		Normal vector (mesh), PHI component	Boundaries 3–7	Meta
ale.nZmesh	nZmesh		Normal vector (mesh), Z component	Boundaries 3–7	Meta
ale.nr	nr		Normal vector, r component	Boundaries 3–7	Meta
ale.nphi	root.nphi		Normal vector, phi component	Boundaries 3–7	Meta
ale.nz	nz		Normal vector, z component	Boundaries 3–7	Meta
ale.nrmesh	nrmesh		Normal vector (mesh), r component	Boundaries 3–7	Meta
ale.nphimesh	root.nphimesh		Normal vector (mesh), phi	Boundaries 3–7	Meta

Name	Expression	Unit	Description	Selection	Details
			component		
ale.nzmesh	nzmesh		Normal vector (mesh), z component	Boundaries 3–7	Meta
ale.nRg	nRg		Normal vector, Rg component	Boundaries 3–7	Meta
ale.nPHlg	root.nPHlg		Normal vector, PHlg component	Boundaries 3–7	Meta
ale.nZg	nZg		Normal vector, Zg component	Boundaries 3–7	Meta
ale.nRgmesh	nRgmesh		Normal vector (mesh), Rg component	Boundaries 3–7	Meta
ale.nPHlgmesh	root.nPHlgmesh		Normal vector (mesh), PHlg component	Boundaries 3–7	Meta
ale.nZgmesh	nZgmesh		Normal vector (mesh), Zg component	Boundaries 3–7	Meta
ale.nRm	nRm		Normal vector, Rm component	Boundaries 3–7	Meta
ale.nPHlm	root.nPHlm		Normal vector, PHlm component	Boundaries 3–7	Meta
ale.nZm	nZm		Normal vector, Zm component	Boundaries 3–7	Meta
ale.nRmmesh	nRmmesh		Normal vector (mesh), Rm component	Boundaries 3–7	Meta
ale.nPHlmmesh	root.nPHlmmesh		Normal vector (mesh), PHlm component	Boundaries 3–7	Meta
ale.nZmmesh	nZmmesh		Normal vector (mesh), Zm component	Boundaries 3–7	Meta
ale.relVol	spatial.relVol	1	Local relative element volume	Domain 2	
ale.relVolMin	spatial.relVolMin	1	Minimum relative	Global	

Name	Expression	Unit	Description	Selection	Details
			element volume		
ale.relVolMax	spatial.relVolMax	1	Maximum relative element volume	Global	
ale.minqual	spatial.minqual		Minimum element quality	Global	
ale.I1iso	spatial.I1iso	1	First invariant of isochoric mesh strain tensor	Domain 2	
ale.I1isoMax	spatial.I1isoMax	1	Maximum element distortion	Global	
ale.J_mesh	spatial.J_mesh	1	Mesh deformation volume ratio	Domain 2	
rt	d(r,TIME)	m/s	Mesh velocity, r component	Global	
phit	0	m/s	Mesh velocity, phi component	Global	
zt	d(z,TIME)	m/s	Mesh velocity, z component	Global	

2.4.3 Fixed Mesh 1

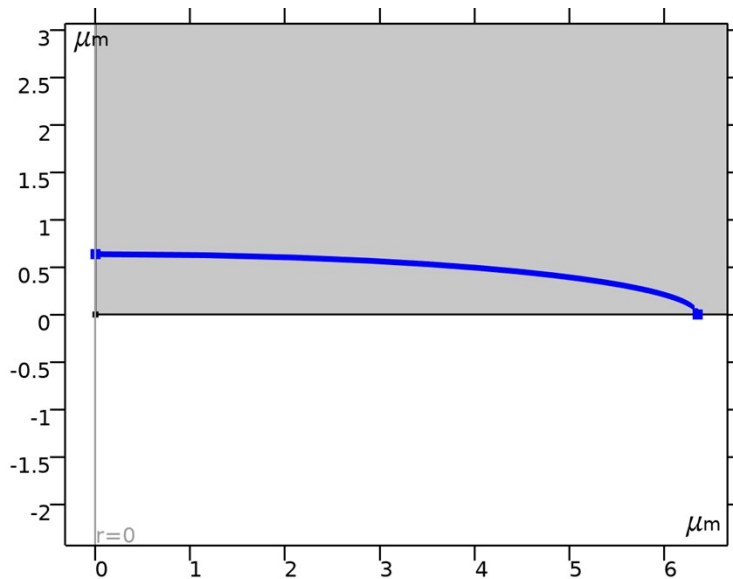


Fixed Mesh 1

SELECTION

Geometric entity level	Domain
Selection	Geometry geom1: Dimension 2: All domains

2.4.4 Prescribed Mesh Displacement 1



Prescribed Mesh Displacement 1

SELECTION

Geometric entity level	Boundary
------------------------	----------

Selection	Geometry geom1: Dimension 1: All boundaries
-----------	---

SETTINGS

Description	Value
Prescribed mesh displacement	{0, 0}
Use weak constraints	Off
Prescribed # displacement	{On, On}

Coordinate System Selection

SETTINGS

Description	Value
Coordinate system	Global coordinate system

2.4.5 Free Deformation 1



Free Deformation 1

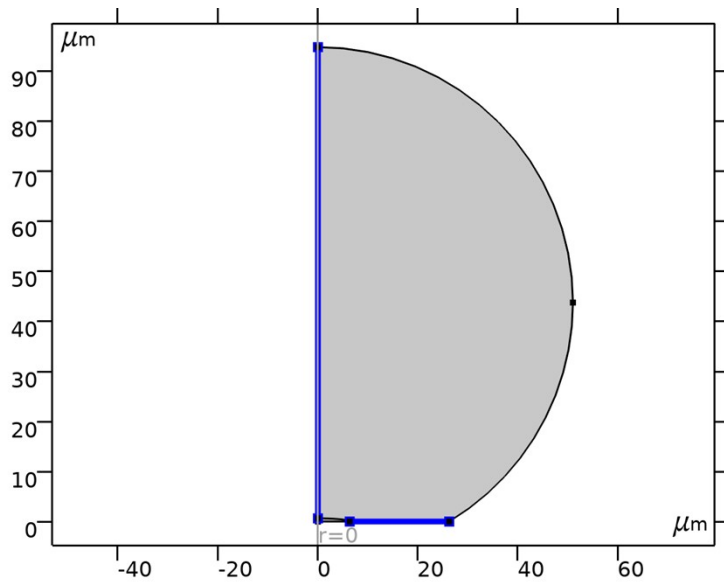
SELECTION

Geometric entity level	Domain
Selection	Geometry geom1: Dimension 2: Domain 2

SETTINGS

Description	Value
Initial mesh displacement	{0, 0}

2.4.6 Zero Normal Mesh Displacement 1



Zero Normal Mesh Displacement 1

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundaries 3–4

EQUATIONS

$$\underline{(x - X) \cdot N = 0}$$

SETTINGS

Description	Value
Use weak constraints	Off

2.4.7 Prescribed Mesh Velocity 1



Prescribed Mesh Velocity 1

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundaries 6–7

SETTINGS

Description	Value
Prescribed mesh velocity	{if(r_c > 1.25*r_elec, Vr_CCA, Vr_CCR), if(r_c > 1.25*r_elec, Vz_CCA, Vz_CCR)}
Use weak constraints	Off
Prescribed # velocity	{On, On}

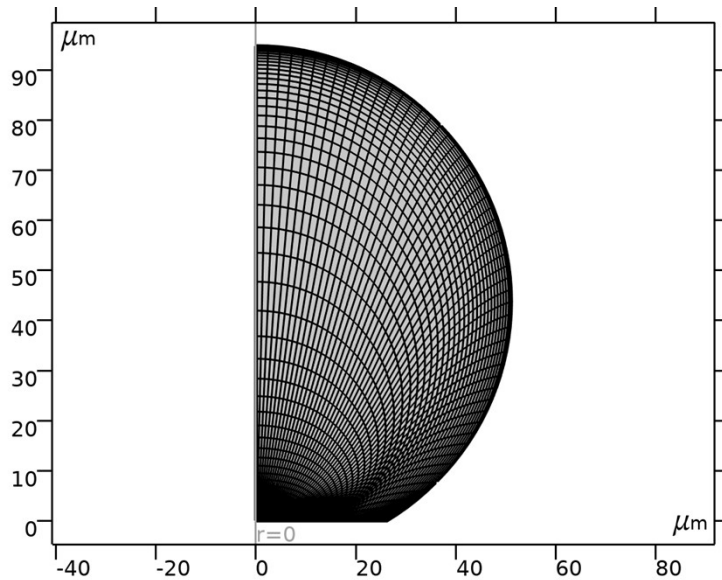
Coordinate System Selection

SETTINGS

Description	Value
Coordinate system	Global coordinate system

2.5 MESHES

2.5.1 Mesh 1



Mesh 1

MESH STATISTICS

Description	Value
Minimum element quality	0.01292
Average element quality	0.423
Triangle	534
Quad	2700
Edge element	266
Vertex element	6

Size (size)

SETTINGS

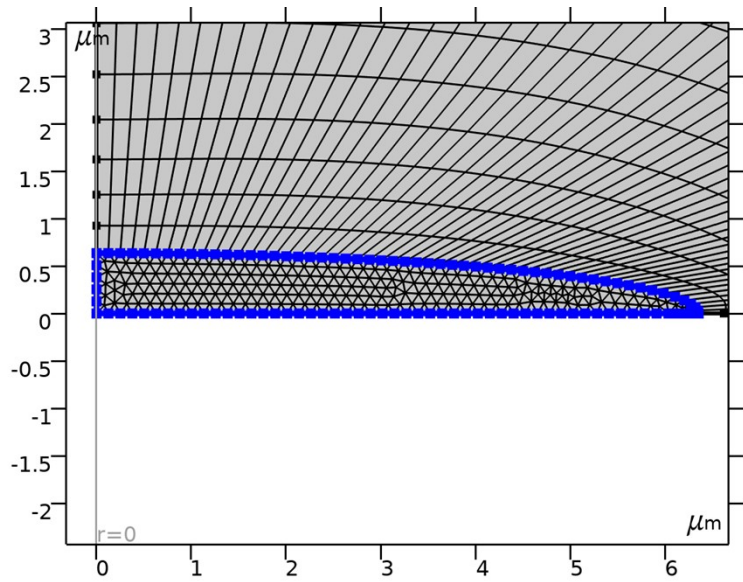
Description	Value
Maximum element size	6.35
Minimum element size	0.0284
Curvature factor	0.3
Maximum element growth rate	1.3

electrode (edg1)

SELECTION

Geometric entity level	Boundary
------------------------	----------

Selection	Geometry geom1: Dimension 1: Boundaries 1-2, 5
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electrode

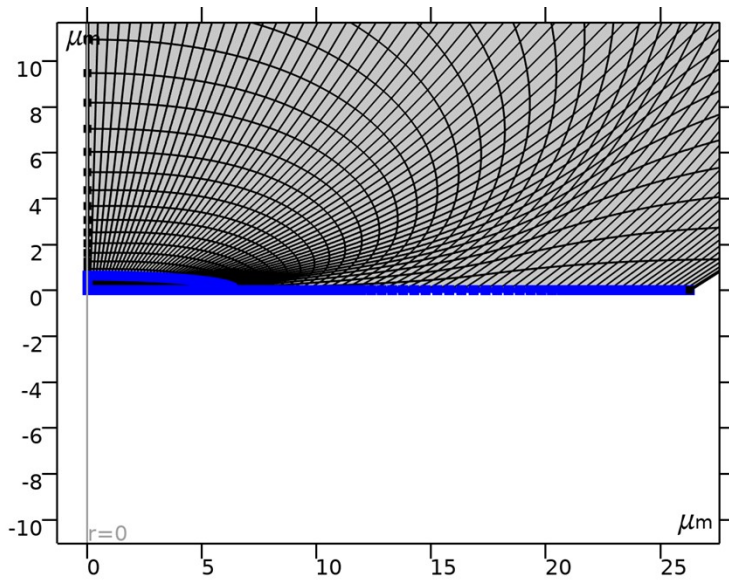
SETTINGS

Description	Value
Number of iterations	4
Maximum element depth to process	4

Size 1 (size1)

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundaries 1-2, 4-5



Size 1

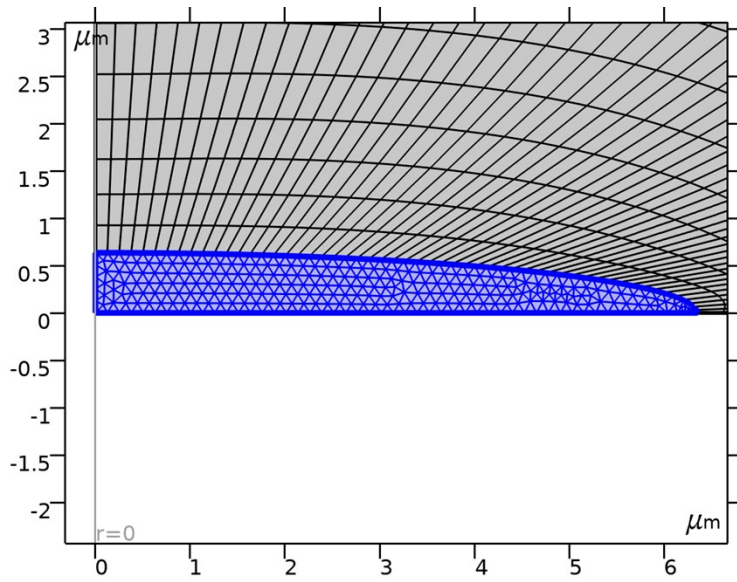
SETTINGS

Description	Value
Maximum element size	r_elec/50
Minimum element size	2.27E-8
Minimum element size	Off
Curvature factor	0.3
Curvature factor	Off
Resolution of narrow regions	Off
Maximum element growth rate	1.3
Maximum element growth rate	Off
Custom element size	Custom

diffusion layer (ftri1)

SELECTION

Geometric entity level	Domain
Selection	Geometry geom1: Dimension 2: Domain 1



diffusion layer

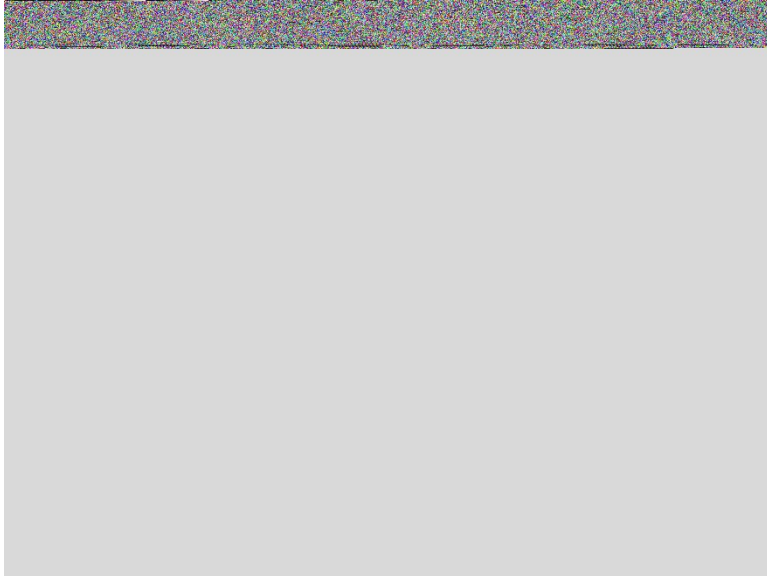
SETTINGS

Description	Value
Number of iterations	4
Maximum element depth to process	4

Size 1 (size1)

SELECTION

Geometric entity level	Domain
Selection	Geometry geom1: Dimension 2: Domain 1



Size 1

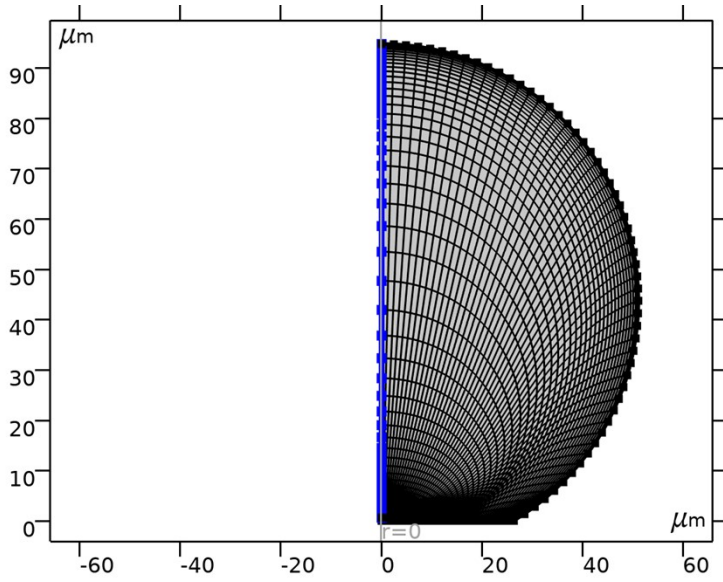
SETTINGS

Description	Value
Calibrate for	Semiconductor
Maximum element size	0.189
Minimum element size	0.0379
Curvature factor	0.25
Predefined size	Finer

revolution axis (edg2)

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundary 3



revolution axis

SETTINGS

Description	Value
Number of iterations	4
Maximum element depth to process	4

Distribution 1 (dis1)

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundary 3



Distribution 1

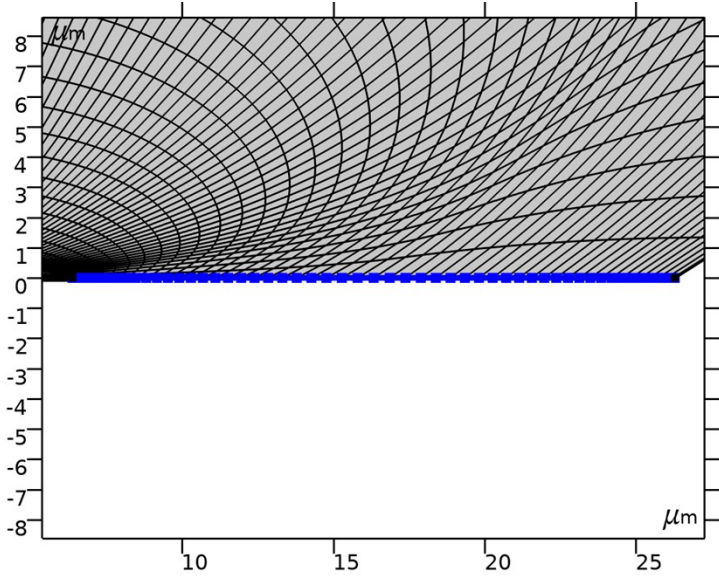
SETTINGS

Description	Value
Distribution type	Predefined
Number of elements	50
Element ratio	20
Growth formula	Geometric sequence
Symmetric distribution	On

glass sheath (edg3)

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundary 4



glass sheath

SETTINGS

Description	Value
Number of iterations	4
Maximum element depth to process	4

Distribution 1 (dis1)

SELECTION

Geometric entity level	Boundary
Selection	Geometry geom1: Dimension 1: Boundary 4



Distribution 1

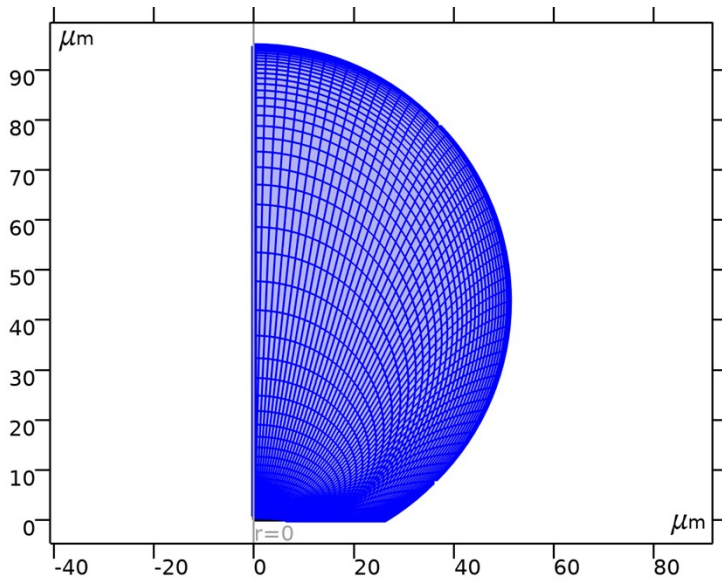
SETTINGS

Description	Value
Distribution type	Predefined
Number of elements	50
Element ratio	2
Symmetric distribution	On

Mapped 1 (map1)

SELECTION

Geometric entity level	Domain
Selection	Geometry geom1: Dimension 2: Domain 2

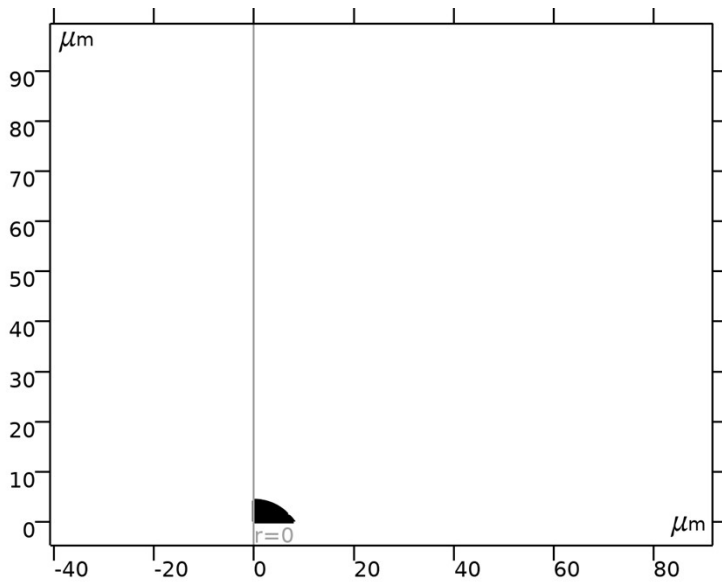


Mapped 1

SETTINGS

Description	Value
Number of iterations	4
Maximum element depth to process	4

2.5.2 Problematic Deformed Mesh 1



Problematic Deformed Mesh 1

MESH STATISTICS

Description	Value
-------------	-------

Description	Value
Minimum element quality	-0.08319
Average element quality	0.5246
Triangle	534
Quad	2700
Edge element	266
Vertex element	6

3 Study 1 (CV 1 to 39)

COMPUTATION INFORMATION

Computation time	23 min 33 s
------------------	-------------

3.1 TIME DEPENDENT

Times	Unit
range(0*t_cv,t_tot/nb/200,39*t_cv)	s

STUDY SETTINGS

Description	Value
Include geometric nonlinearity	Off

STUDY SETTINGS

MESH

Feature	Value
Geometry 1	mesh1

PHYSICS AND VARIABLES SELECTION

Physics interface	Discretization
Transport of Diluted Species in droplet (tds)	physics
Moving Mesh (ale)	physics

MESH SELECTION

Geometry	Mesh
Geometry 1 (geom1)	mesh1

3.2 SOLVER CONFIGURATIONS

3.2.1 Solution 1

Compile Equations: Time Dependent (st1)

STUDY AND STEP

Description	Value
Use study	Study 1 (CV 1 to 39)
Use study step	Time Dependent

LOG

```

<---- Compile Equations: Time Dependent in Study 1 (CV 1 to 39)/Solution 1
(sol2) -----
Started at Jun 15, 2023 6:33:18 PM.
Geometry shape function: Linear Lagrange
Running on Intel64 Family 6 Model 158 Stepping 10, GenuineIntel.
Using 1 socket with 6 cores in total on LAPTOP-2492RD8I.
Available memory: 32.27 GB.
Time: 1 s.
Physical memory: 2.5 GB
Virtual memory: 2.61 GB
Ended at Jun 15, 2023 6:33:19 PM.
----- Compile Equations: Time Dependent in Study 1 (CV 1 to 39)/Solution 1
(sol2) ----->

```

Dependent Variables 1 (v1)

GENERAL

Description	Value
Defined by study step	Time Dependent

RESIDUAL SCALING

Description	Value
Method	Manual

INITIAL VALUE CALCULATION CONSTANTS

Constant name	Initial value source
t	range(0*t_cv,t_tot/nb/200,39*t_cv)
timestep	0.21450000000000002[s]

LOG

```

<---- Dependent Variables 1 in Study 1 (CV 1 to 39)/Solution 1 (sol2) -----
Started at Jun 15, 2023 6:33:19 PM.
Solution time: 0 s.
Physical memory: 2.5 GB
Virtual memory: 2.61 GB
Ended at Jun 15, 2023 6:33:19 PM.
----- Dependent Variables 1 in Study 1 (CV 1 to 39)/Solution 1 (sol2) ----->

```

Concentration (comp1.cOx) (comp1_cOx)

GENERAL

Description	Value
Field components	comp1.cOx
Internal variables	{comp1.uflux.cOx, comp1.dflux.cOx, comp1.tds.dt2Inv_cOx}

Concentration (comp1.cRed) (comp1_cRed)

GENERAL

Description	Value
-------------	-------

Description	Value
Field components	comp1.cRed
Internal variables	{comp1.uflux.cRed, comp1.dflux.cRed, comp1.tds.dt2Inv_cRed}

Spatial mesh displacement (comp1.spatial.disp) (comp1_spatial_disp)

GENERAL

Description	Value
Field components	{comp1.spatial.u, comp1.spatial.w}

SCALING

Description	Value
Method	Manual
Scale	2.4340912061794226E-7

comp1.RgZg (comp1_RgZg)

GENERAL

Description	Value
Field components	{Rg, Zg}
Solve for this field	Off

Time-Dependent Solver 1 (t1)

GENERAL

Description	Value
Defined by study step	Time Dependent
Output times	{0, 0.027500000000000004, 0.055000000000000001, 0.082500000000000002, 0.110000000000000001, 0.1375, 0.165000000000000004, 0.192500000000000003, 0.220000000000000003, 0.247500000000000003, 0.275, 0.302500000000000005, 0.330000000000000007, 0.357500000000000004, 0.385000000000000006, 0.412500000000000003, 0.440000000000000006, 0.467500000000000001, 0.495000000000000005, 0.522500000000000001, 0.55, 0.577500000000000001, 0.605000000000000001, 0.632500000000000001, 0.660000000000000001, 0.687500000000000001, 0.715000000000000001, 0.7425, 0.770000000000000001, 0.797500000000000001, 0.825000000000000001, 0.852500000000000001, 0.880000000000000001, 0.907500000000000001, 0.935000000000000002, 0.962500000000000001, 0.990000000000000001, 1.0175, 1.045000000000000002, 1.072500000000000002, 1.1, 1.127500000000000002, 1.155000000000000002, 1.1825, 1.210000000000000002, 1.237500000000000003, 1.265000000000000001, 1.292500000000000002, 1.320000000000000003, 1.347500000000000001, 1.375000000000000002, 1.4025, 1.430000000000000002, 1.457500000000000002, 1.485, 1.512500000000000002, 1.540000000000000003, 1.567500000000000001, 1.595000000000000002, 1.622500000000000003, 1.650000000000000001, 1.677500000000000002, 1.705000000000000003, 1.732500000000000002,

Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Relative tolerance	0.005

TIME STEPPING

Description	Value
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Description	Value
Maximum BDF order	2
Nonlinear controller	On

LOG

-	202.26	- out									
-	202.29	- out									
2243	202.3	0.055119	34	18	34	2	0	0	2.1e-14	5.3e-15	
-	202.32	- out									
-	202.35	- out									
2244	202.36	0.055119	36	19	36	2	0	0	8.1e-14	4.3e-15	
-	202.37	- out									
-	202.4	- out									
2245	202.41	0.055119	38	20	38	2	0	0	4.1e-14	2.9e-15	
-	202.43	- out									
-	202.46	- out									
2246	202.47	0.055119	40	21	40	2	0	0	2.8e-13	4.2e-15	
-	202.48	- out									
-	202.51	- out									
2247	202.52	0.055119	42	22	42	2	0	0	3.8e-14	4e-15	
-	202.54	- out									
-	202.57	- out									
2248	202.58	0.055119	44	23	44	2	0	0	2.4e-13	4.3e-15	
-	202.59	- out									
-	202.62	- out									
2249	202.63	0.055119	46	24	46	2	0	0	4.6e-13	4.6e-15	
-	202.65	- out									
-	202.68	- out									
2250	202.69	0.055119	48	25	48	2	0	0	7.4e-13	5.5e-15	
-	202.7	- out									
-	202.73	- out									
2251	202.74	0.055119	50	26	50	2	0	0	4.8e-13	3.1e-15	
-	202.76	- out									
-	202.79	- out									
2252	202.8	0.055119	52	27	52	2	0	0	2.1e-13	4.1e-15	
-	202.81	- out									
-	202.84	- out									
2253	202.85	0.055119	54	28	54	2	0	0	6.7e-13	5.2e-15	
-	202.87	- out									
-	202.9	- out									
-	202.92	- out									
-	202.95	- out									
2254	202.96	0.11024	56	29	56	2	0	0	9.4e-13	3.3e-15	
-	202.98	- out									
-	203.01	- out									
-	203.03	- out									
-	203.06	- out									
2255	203.07	0.11024	58	30	58	2	0	0	2.2e-13	3.4e-15	
-	203.09	- out									
-	203.12	- out									
-	203.14	- out									
-	203.17	- out									
2256	203.18	0.11024	60	31	60	2	0	0	2.5e-12	6.2e-15	
-	203.2	- out									
-	203.23	- out									
-	203.25	- out									
-	203.28	- out									
2257	203.29	0.11024	62	32	62	2	0	0	3.9e-12	5.2e-15	
-	203.31	- out									
-	203.34	- out									
-	203.36	- out									

-	203.39	- out									
2258	203.4	0.11024	64	33	64	2	0	0	7.3e-13	4.7e-15	
-	203.42	- out									
-	203.45	- out									
-	203.47	- out									
-	203.5	- out									
-	203.53	- out									
-	203.56	- out									
-	203.58	- out									
-	203.61	- out									
2259	203.63	0.22048	66	34	66	2	0	0	4.4e-14	8.4e-15	
-	203.64	- out									
-	203.67	- out									
-	203.69	- out									
-	203.72	- out									
-	203.75	- out									
-	203.78	- out									
-	203.8	- out									
-	203.83	- out									
2260	203.85	0.22048	68	35	68	2	0	0	1e-12	3.8e-15	
-	203.86	- out									
-	203.89	- out									
-	203.91	- out									
-	203.94	- out									
-	203.97	- out									
2261	203.99	0.14225	72	37	72	2	1	0	6.8e-13	5.6e-15	
-	204	- out									
-	204.02	- out									
-	204.05	- out									
-	204.08	- out									
2262	204.08	0.093143	76	39	76	2	2	0	2.1e-13	3.3e-15	
-	204.11	- out									
-	204.13	- out									
-	204.16	- out									
2263	204.17	0.093143	78	40	78	2	2	0	1.6e-13	3.6e-15	
-	204.19	- out									
-	204.22	- out									
-	204.24	- out									
2264	204.25	0.077448	80	41	80	2	2	0	6.6e-14	5.2e-15	
-	204.27	- out									
-	204.3	- out									
2265	204.32	0.064858	82	42	82	2	2	0	1.4e-13	4.7e-15	
-	204.33	- out									
-	204.35	- out									
2266	204.37	0.058372	84	43	84	2	2	0	4e-14	5e-15	
-	204.38	- out									
-	204.41	- out									
2267	204.43	0.058372	86	44	86	2	2	0	4.3e-14	6.4e-15	
-	204.44	- out									
-	204.46	- out									
-	204.49	- out									
2268	204.49	0.058372	88	45	88	2	2	0	2.9e-14	8.4e-15	
-	204.52	- out									
-	204.55	- out									
2269	204.55	0.058372	90	46	90	2	2	0	1.9e-14	1.4e-14	
-	204.57	- out									

-	204.6	- out								
2270	204.61	0.058372	92	47	92	2	2	0	4.2e-14	2.1e-14
-	204.63	- out								
-	204.66	- out								
2271	204.67	0.058372	94	48	94	2	2	0	1.6e-14	3.4e-14
-	204.68	- out								
-	204.71	- out								
-	204.74	- out								
-	204.77	- out								
2272	204.78	0.11674	96	49	96	2	2	0	3.6e-14	2.2e-14
-	204.79	- out								
-	204.82	- out								
-	204.85	- out								
-	204.88	- out								
2273	204.89	0.10507	98	50	98	2	2	0	4.3e-14	7.5e-15
-	204.9	- out								
-	204.93	- out								
-	204.96	- out								
-	204.99	- out								
2274	204.99	0.10507	100	51	100	2	2	0	1.1e-13	6.6e-15
-	205.01	- out								
-	205.04	- out								
-	205.07	- out								
2275	205.08	0.089807	102	52	102	2	2	0	6.3e-14	5.7e-15
-	205.1	- out								
-	205.12	- out								
-	205.15	- out								
2276	205.16	0.078493	104	53	104	2	2	0	8.3e-14	4.8e-15
-	205.18	- out								
-	205.21	- out								
-	205.23	- out								
2277	205.24	0.078493	106	54	106	2	2	0	1.9e-14	6.2e-15
-	205.26	- out								
-	205.29	- out								
-	205.32	- out								
2278	205.32	0.078493	108	55	108	2	2	0	2.7e-13	4.7e-15
-	205.34	- out								
-	205.37	- out								
2279	205.4	0.078493	110	56	110	2	2	0	2.3e-13	5e-15
-	205.4	- out								
-	205.43	- out								
-	205.45	- out								
2280	205.48	0.078493	112	57	112	2	2	0	1.5e-13	4.5e-15
-	205.48	- out								
-	205.51	- out								
-	205.54	- out								
2281	205.55	0.070643	114	58	114	2	2	0	2e-13	5.4e-15
-	205.56	- out								
-	205.59	- out								
2282	205.62	0.070643	116	59	116	2	2	0	1.6e-13	3.4e-15
-	205.62	- out								
-	205.65	- out								
-	205.67	- out								
2283	205.69	0.070643	118	60	118	2	2	0	4.6e-13	5.3e-15
-	205.7	- out								
-	205.73	- out								

-	205.76	- out								
2284	205.76	0.070643	120	61	120	2	2	0	1.9e-13	3.1e-15
-	205.78	- out								
-	205.81	- out								
2285	205.83	0.070643	122	62	122	2	2	0	9e-14	2.9e-15
-	205.84	- out								
-	205.87	- out								
-	205.89	- out								
2286	205.9	0.070643	124	63	124	2	2	0	2.8e-13	6e-15
-	205.92	- out								
-	205.95	- out								
2287	205.97	0.070643	126	64	126	2	2	0	2.4e-13	4.1e-15
-	205.98	- out								
-	206	- out								
-	206.03	- out								
2288	206.04	0.070643	128	65	128	2	2	0	6.9e-13	3.6e-15
-	206.06	- out								
-	206.09	- out								
-	206.11	- out								
-	206.14	- out								
-	206.17	- out								
2289	206.18	0.14129	130	66	130	2	2	0	2.9e-13	4.1e-15
-	206.2	- out								
-	206.22	- out								
-	206.25	- out								
-	206.28	- out								
-	206.31	- out								
2290	206.32	0.14129	132	67	132	2	2	0	7.5e-14	6.1e-15
-	206.33	- out								
-	206.36	- out								
-	206.39	- out								
-	206.42	- out								
-	206.44	- out								
2291	206.46	0.14129	134	68	134	2	2	0	1.4e-14	3.7e-14
-	206.46	- out								
2292	206.61	0.14129	136	69	136	2	2	0	8.5e-14	4.7e-15

Number of vertex elements: 3

Number of boundary elements: 112

Number of vertex elements: 3

Number of boundary elements: 112

Number of elements: 534

Minimum element quality: 0.5661

Number of vertex elements: 4

Number of boundary elements: 162

Number of vertex elements: 5

Number of boundary elements: 212

Number of vertex elements: 6

Number of boundary elements: 266

Minimum element quality: 0.07055

Geometry shape function: Linear Lagrange

Time interval 10

Time-dependent solver (BDF)

Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).

Nonsymmetric matrix found.

Scales for dependent variables:

Concentration (compl.cOx): 8.3

Concentration (compl.cRed): 5.5

Spatial mesh displacement (compl.spatial.disp): 2.4e-07

Step	Time	Stepsize	Res	Jac	Sol	Order	Tfail	NLfail	LinErr	LinRes
-	206.46	- out								
-	206.47	- out								
2293	206.49	0.0275	2	2	2	1	0	0	2.4e-14	2.7e-15
-	206.5	- out								
2294	206.52	0.0275	4	3	4	1	0	0	8.6e-14	5e-15
-	206.53	- out								
-	206.55	- out								
2295	206.57	0.055	6	4	6	2	0	0	2.2e-13	2.8e-15
-	206.58	- out								
-	206.61	- out								
-	206.64	- out								
-	206.66	- out								
2296	206.68	0.11	8	5	8	2	0	0	3.9e-13	3.9e-15
-	206.69	- out								
-	206.72	- out								
-	206.75	- out								
-	206.77	- out								
2297	206.79	0.11	10	6	10	2	0	0	5.9e-13	5.4e-15
-	206.8	- out								
-	206.83	- out								
-	206.86	- out								
-	206.88	- out								
2298	206.9	0.11	12	7	12	2	0	0	2.8e-13	4.5e-15
-	206.91	- out								
-	206.94	- out								
-	206.97	- out								
2299	206.98	0.075276	16	9	16	2	1	0	2.1e-13	4.4e-15
-	206.99	- out								
-	207.02	- out								
-	207.05	- out								
2300	207.06	0.075276	18	10	18	2	1	0	8.2e-14	4.8e-15
-	207.08	- out								
-	207.1	- out								
2301	207.12	0.067408	20	11	20	2	1	0	3.5e-13	8.3e-15
-	207.13	- out								
-	207.16	- out								
2302	207.18	0.057645	22	12	22	2	1	0	4.1e-14	4.9e-15
Reassembling sparsity pattern										
-	207.19	- out								
-	207.21	- out								
2303	207.23	0.05188	24	13	24	2	1	0	4.3e-15	3.2e-16
-	207.24	- out								
-	207.27	- out								
2304	207.28	0.05188	26	14	26	2	1	0	2e-14	4.5e-16
-	207.3	- out								
-	207.32	- out								
2305	207.33	0.046692	28	15	28	2	1	0	3.2e-15	3.3e-16
-	207.35	- out								
-	207.38	- out								
2306	207.38	0.046692	30	16	30	2	1	0	4.7e-15	3.5e-16
-	207.41	- out								
2307	207.42	0.046692	32	17	32	2	1	0	7.4e-15	4.8e-16
-	207.43	- out								

-	207.46	- out									
2308	207.47	0.046692	34	18	34	2	1	0	5.4e-14	2.9e-15	
-	207.49	- out									
-	207.52	- out									
2309	207.52	0.046692	36	19	36	2	1	0	2.4e-14	3.8e-15	
-	207.54	- out									
2310	207.56	0.046692	38	20	38	2	1	0	5.4e-14	4.9e-15	
-	207.57	- out									
-	207.6	- out									
2311	207.61	0.046692	40	21	40	2	1	0	1e-13	4.8e-15	
-	207.63	- out									
-	207.65	- out									
2312	207.66	0.046692	42	22	42	2	1	0	1.3e-14	3.7e-15	
-	207.68	- out									
2313	207.7	0.046692	44	23	44	2	1	0	1.4e-13	5.6e-15	
-	207.71	- out									
-	207.74	- out									
2314	207.75	0.046692	46	24	46	2	1	0	2.6e-14	5.8e-15	
-	207.76	- out									
-	207.79	- out									
2315	207.8	0.046692	48	25	48	2	1	0	1.3e-14	1.2e-14	
-	207.82	- out									
-	207.85	- out									
-	207.87	- out									
2316	207.89	0.093384	50	26	50	2	1	0	3.9e-14	3.5e-15	
-	207.9	- out									
-	207.93	- out									
-	207.96	- out									
2317	207.98	0.084046	52	27	52	2	1	0	9.7e-14	5e-15	
-	207.98	- out									
-	208.01	- out									
-	208.04	- out									
2318	208.06	0.084046	54	28	54	2	1	0	1.4e-13	4e-15	
-	208.07	- out									
-	208.09	- out									
-	208.12	- out									
2319	208.13	0.075641	56	29	56	2	1	0	5.4e-14	3.1e-15	
-	208.15	- out									
-	208.18	- out									
-	208.2	- out									
2320	208.21	0.075641	58	30	58	2	1	0	4.5e-13	4.2e-15	
-	208.23	- out									
-	208.26	- out									
-	208.29	- out									
2321	208.29	0.075641	60	31	60	2	1	0	3.3e-13	4.3e-15	
-	208.31	- out									
-	208.34	- out									
2322	208.36	0.075641	62	32	62	2	1	0	3.8e-13	3.9e-15	
-	208.37	- out									
-	208.4	- out									
-	208.42	- out									
2323	208.44	0.075641	64	33	64	2	1	0	5.6e-13	2.8e-15	
-	208.45	- out									
-	208.48	- out									
-	208.51	- out									
2324	208.51	0.075641	66	34	66	2	1	0	4.7e-13	3.9e-15	

-	208.53	-	out								
-	208.56	-	out								
-	208.59	-	out								
2325	208.59	0.075641		68	35	68	2	1	0	7.3e-14	3.4e-15
-	208.62	-	out								
-	208.64	-	out								
-	208.67	-	out								
-	208.7	-	out								
-	208.73	-	out								
2326	208.74	0.15128		70	36	70	2	1	0	8.5e-13	3.1e-15
-	208.75	-	out								
-	208.78	-	out								
-	208.81	-	out								
-	208.84	-	out								
-	208.86	-	out								
-	208.89	-	out								
2327	208.89	0.15128		72	37	72	2	1	0	6.7e-13	3.6e-15
-	208.92	-	out								
-	208.95	-	out								
-	208.97	-	out								
-	209	-	out								
-	209.03	-	out								
2328	209.04	0.15128		74	38	74	2	1	0	5.8e-13	4.7e-15
-	209.06	-	out								
-	209.08	-	out								
-	209.11	-	out								
-	209.14	-	out								
-	209.17	-	out								
-	209.19	-	out								
2329	209.19	0.15128		76	39	76	2	1	0	7.4e-14	5e-15
-	209.22	-	out								
-	209.25	-	out								
-	209.28	-	out								
-	209.3	-	out								
-	209.33	-	out								
2330	209.35	0.15128		78	40	78	2	1	0	4.3e-13	3.6e-15
-	209.36	-	out								
-	209.39	-	out								
-	209.41	-	out								
-	209.44	-	out								
-	209.47	-	out								
-	209.5	-	out								
2331	209.5	0.15128		80	41	80	2	1	0	7.1e-13	5.4e-15
-	209.52	-	out								
-	209.55	-	out								
2332	209.57	0.073805		84	43	84	2	2	0	3e-13	4.4e-15
-	209.58	-	out								
-	209.61	-	out								
-	209.63	-	out								
2333	209.64	0.073805		86	44	86	2	2	0	1e-13	3.3e-15
-	209.66	-	out								
-	209.69	-	out								
2334	209.71	0.066425		88	45	88	2	2	0	1.2e-13	4.8e-15
-	209.72	-	out								
-	209.74	-	out								
2335	209.77	0.059416		90	46	90	2	2	0	1.3e-13	5.4e-15

-	209.77	- out								
-	209.8	- out								
2336	209.82	0.053475	92	47	92	2	2	0	8.1e-14	6.1e-15
-	209.83	- out								
-	209.85	- out								
2337	209.88	0.053475	94	48	94	2	2	0	1.1e-13	7.9e-15
-	209.88	- out								
-	209.91	- out								
2338	209.93	0.053475	96	49	96	2	2	0	5.4e-14	9.6e-15
-	209.94	- out								
-	209.96	- out								
2339	209.98	0.053475	98	50	98	2	2	0	7.8e-14	1.2e-14
-	209.99	- out								
-	210.02	- out								
2340	210.04	0.053475	100	51	100	2	2	0	8.1e-14	1.1e-14
-	210.05	- out								
-	210.07	- out								
2341	210.09	0.053475	102	52	102	2	2	0	9.7e-14	1.1e-14
-	210.1	- out								
-	210.13	- out								
2342	210.14	0.053475	104	53	104	2	2	0	2.1e-14	1.2e-14
-	210.16	- out								
-	210.18	- out								
2343	210.2	0.053475	106	54	106	2	2	0	3.2e-14	1.4e-14
-	210.21	- out								
-	210.24	- out								
-	210.27	- out								
-	210.29	- out								
2344	210.3	0.10695	108	55	108	2	2	0	2.7e-14	7.5e-14
-	210.32	- out								
-	210.35	- out								
-	210.38	- out								
-	210.4	- out								
2345	210.41	0.10695	110	56	110	2	2	0	7.3e-14	7.5e-15
-	210.43	- out								
-	210.46	- out								
-	210.49	- out								
-	210.51	- out								
2346	210.52	0.10695	112	57	112	2	2	0	3.7e-14	6.3e-15
-	210.54	- out								
-	210.57	- out								
-	210.6	- out								
2347	210.61	0.089197	114	58	114	2	2	0	6e-14	5.8e-15
-	210.62	- out								
-	210.65	- out								
-	210.68	- out								
2348	210.69	0.077948	116	59	116	2	2	0	7.3e-14	4.6e-15
-	210.71	- out								
-	210.73	- out								
2349	210.76	0.070153	118	60	118	2	2	0	3.1e-14	6.3e-15
-	210.76	- out								
-	210.79	- out								
-	210.82	- out								
2350	210.83	0.070153	120	61	120	2	2	0	5.3e-14	3.6e-15
-	210.84	- out								
-	210.87	- out								

2351	210.9	0.070153	122	62	122	2	2	0	1.5e-13	3.1e-15
-	210.9	- out								
-	210.93	- out								
-	210.95	- out								
2352	210.97	0.070153	124	63	124	2	2	0	2.2e-13	4.6e-15
-	210.98	- out								
-	211.01	- out								
-	211.04	- out								
2353	211.04	0.070153	126	64	126	2	2	0	1.5e-13	5.2e-15
-	211.06	- out								
-	211.09	- out								
2354	211.11	0.070153	128	65	128	2	2	0	1.4e-13	2.7e-15
-	211.12	- out								
-	211.15	- out								
-	211.17	- out								
2355	211.18	0.070153	130	66	130	2	2	0	2.1e-13	3.7e-15
-	211.2	- out								
-	211.23	- out								
2356	211.25	0.070153	132	67	132	2	2	0	2.1e-13	2.7e-15
-	211.26	- out								
-	211.28	- out								
-	211.31	- out								
2357	211.32	0.070153	134	68	134	2	2	0	2.8e-13	4.2e-15
-	211.34	- out								
-	211.37	- out								
2358	211.39	0.070153	136	69	136	2	2	0	8.7e-14	3.7e-15
-	211.39	- out								
-	211.42	- out								
-	211.45	- out								
2359	211.46	0.070153	138	70	138	2	2	0	5.2e-13	3e-15
-	211.48	- out								
-	211.5	- out								
2360	211.53	0.070153	140	71	140	2	2	0	2.9e-13	5.2e-15
-	211.53	- out								
-	211.56	- out								
-	211.59	- out								
2361	211.6	0.070153	142	72	142	2	2	0	3.1e-13	4.1e-15
-	211.61	- out								
-	211.64	- out								
-	211.67	- out								
2362	211.67	0.070153	144	73	144	2	2	0	2.1e-13	4.5e-15
-	211.7	- out								
-	211.72	- out								
2363	211.74	0.070153	146	74	146	2	2	0	8.7e-14	5.7e-15
-	211.75	- out								
-	211.78	- out								
-	211.81	- out								
2364	211.81	0.070153	148	75	148	2	2	0	8.6e-14	4.8e-15
-	211.83	- out								
-	211.86	- out								
2365	211.88	0.070153	150	76	150	2	2	0	2.4e-13	4e-15
-	211.89	- out								
-	211.92	- out								
-	211.94	- out								
2366	211.95	0.070153	152	77	152	2	2	0	8.4e-14	9.1e-15
-	211.97	- out								

-	212	- out								
2367	212.02	0.070153	154	78	154	2	2	0	5.7e-14	4.5e-15
-	212.03	- out								
-	212.05	- out								
-	212.08	- out								
2368	212.09	0.070153	156	79	156	2	2	0	2.5e-13	4.5e-15
-	212.11	- out								
-	212.14	- out								
2369	212.16	0.070153	158	80	158	2	2	0	7.5e-13	7.6e-15
-	212.16	- out								
-	212.19	- out								
-	212.22	- out								
2370	212.23	0.070153	160	81	160	2	2	0	2.4e-13	3.6e-15
-	212.25	- out								
-	212.27	- out								
2371	212.3	0.070153	162	82	162	2	2	0	1.2e-12	5.7e-15
-	212.3	- out								
-	212.33	- out								
-	212.36	- out								
2372	212.37	0.070153	164	83	164	2	2	0	1.5e-12	6.6e-15
-	212.38	- out								
-	212.41	- out								
2373	212.43	0.06025	166	84	166	2	2	0	4.9e-13	5.7e-15
-	212.44	- out								
-	212.47	- out								
2374	212.48	0.05275	168	85	168	2	2	0	2.6e-13	7e-15
-	212.49	- out								
-	212.52	- out								
2375	212.53	0.047475	170	86	170	2	2	0	2e-13	1.1e-14
-	212.55	- out								
2376	212.57	0.042727	172	87	172	2	2	0	2.4e-13	3.3e-15
-	212.58	- out								
-	212.6	- out								
2377	212.62	0.042727	174	88	174	2	2	0	1.7e-13	3.2e-15
-	212.63	- out								
2378	212.65	0.038455	176	89	176	2	2	0	9.5e-14	4e-15
-	212.66	- out								
-	212.69	- out								
2379	212.69	0.038455	178	90	178	2	2	0	1.2e-13	4.3e-15
-	212.71	- out								
2380	212.73	0.038455	180	91	180	2	2	0	9.6e-14	4.7e-15
-	212.74	- out								
-	212.77	- out								
2381	212.77	0.038455	182	92	182	2	2	0	3.2e-14	3.1e-15
-	212.8	- out								
2382	212.81	0.038455	184	93	184	2	2	0	4.8e-14	5.2e-15
-	212.82	- out								
2383	212.85	0.038455	186	94	186	2	2	0	4.4e-14	5.9e-15
-	212.85	- out								
-	212.88	- out								
2384	212.88	0.038455	188	95	188	2	2	0	2.7e-14	4.5e-15
-	212.91	- out								
2385	212.92	0.038455	190	96	190	2	2	0	1.3e-14	4.7e-15
-	212.93	- out								
-	212.96	- out								
2386	212.96	0.038455	192	97	192	2	2	0	2e-14	3.7e-15

-	212.99	- out								
2387	213	0.038455	194	98	194	2	2	0	3.1e-14	5e-15
-	213.02	- out								
2388	213.04	0.038455	196	99	196	2	2	0	3.8e-14	4.7e-15
-	213.04	- out								
-	213.07	- out								
2389	213.08	0.038455	198	100	198	2	2	0	5.9e-14	5.1e-15
-	213.1	- out								
2390	213.12	0.038455	200	101	200	2	2	0	5.2e-14	5.9e-15
-	213.13	- out								
-	213.15	- out								
2391	213.15	0.038455	202	102	202	2	2	0	3.6e-14	3.9e-15
-	213.18	- out								
2392	213.19	0.038455	204	103	204	2	2	0	2.6e-14	5.3e-15
-	213.21	- out								
-	213.24	- out								
-	213.26	- out								
2393	213.27	0.076909	206	104	206	2	2	0	1.7e-14	8e-15
-	213.29	- out								
-	213.32	- out								
-	213.35	- out								
2394	213.35	0.076909	208	105	208	2	2	0	8.1e-14	5.3e-15
-	213.37	- out								
-	213.4	- out								
2395	213.42	0.076909	210	106	210	2	2	0	2.5e-13	4.1e-15
-	213.43	- out								
-	213.46	- out								
-	213.48	- out								
2396	213.5	0.076909	212	107	212	2	2	0	4.7e-14	3.1e-15
-	213.51	- out								
-	213.54	- out								
-	213.57	- out								
2397	213.58	0.076909	214	108	214	2	2	0	1.6e-13	3.2e-15
-	213.59	- out								
-	213.62	- out								
-	213.65	- out								
2398	213.65	0.076909	216	109	216	2	2	0	1.7e-13	3.6e-15
-	213.68	- out								
-	213.7	- out								
-	213.73	- out								
2399	213.73	0.076909	218	110	218	2	2	0	7.7e-14	4e-15
-	213.76	- out								
-	213.79	- out								
2400	213.81	0.076909	220	111	220	2	2	0	6.2e-13	4.2e-15
-	213.81	- out								
-	213.84	- out								
-	213.87	- out								
2401	213.88	0.076909	222	112	222	2	2	0	2.3e-13	3.7e-15
-	213.9	- out								
-	213.92	- out								
-	213.95	- out								
2402	213.96	0.076909	224	113	224	2	2	0	4.1e-13	3.2e-15
-	213.98	- out								
-	214.01	- out								
-	214.03	- out								
2403	214.04	0.076909	226	114	226	2	2	0	2.6e-13	4.2e-15

```

-      214.06      - out
-      214.09      - out
-      214.12      - out
2404   214.12      0.076909      228  115  228      2      2      0      9e-14      3e-15
-      214.14      - out
-      214.17      - out
-      214.2       - out
-      214.23      - out
-      214.25      - out
2405   214.27      0.15382      230  116  230      2      2      0      2.4e-12      5.1e-15
-      214.28      - out
-      214.31      - out
-      214.34      - out
-      214.36      - out
-      214.39      - out
-      214.42      - out
2406   214.42      0.15382      232  117  232      2      2      0      6.3e-13      3.8e-15
-      214.45      - out
-      214.47      - out
-      214.5       - out
2407   214.58      0.15382      234  118  234      2      2      0      1.8e-13      7.7e-15

```

Time-stepping completed.

Geometry shape function: Linear Lagrange

Solution time: 1411 s. (23 minutes, 31 seconds)

Physical memory: 2.85 GB

Virtual memory: 2.97 GB

Ended at Jun 15, 2023 6:56:50 PM.

----- Time-Dependent Solver 1 in Study 1 (CV 1 to 39)/Solution 1 (sol2) ----->

Advanced (aDef)

ASSEMBLY SETTINGS

Description	Value
Reuse sparsity pattern	On

Fully Coupled 1 (fc1)

GENERAL

Description	Value
Linear solver	Direct 1

METHOD AND TERMINATION

Description	Value
Damping factor	0.9
Jacobian update	Once per time step
Maximum number of iterations	8
Stabilization and acceleration	Anderson acceleration
Dimension of iteration space	5

Automatic Remeshing 1 (ar1)

GENERAL

Description	Value
Remesh in geometry	Geometry 1

CONDITION FOR REMESHING

Description	Value
Condition type	Distortion

OUTPUT

Description	Value
Solution	Remeshed Solution 1
Meshes	{mesh2, mesh3, mesh4, mesh5, mesh6, mesh7, mesh8, mesh9, mesh10}

4 Study 2 (CV 40 to 44)

COMPUTATION INFORMATION

Computation time	9 min 5 s
------------------	-----------

4.1 TIME DEPENDENT

Times	Unit
range(39*t_cv,t_tot/nb/200,44*t_cv)	s

STUDY SETTINGS

Description	Value
Include geometric nonlinearity	Off

STUDY SETTINGS

Description	Value
Output times	{214.50000000000003, 214.52750000000003, 214.55500000000004, 214.58250000000004, 214.61000000000004, 214.63750000000002, 214.66500000000002, 214.69250000000002, 214.72000000000003, 214.74750000000003, 214.77500000000003, 214.80250000000004, 214.83000000000004, 214.85750000000002, 214.88500000000002, 214.91250000000002, 214.94000000000003, 214.96750000000003, 214.99500000000003, 215.02250000000004, 215.05000000000004, 215.07750000000001, 215.10500000000002, 215.13250000000002, 215.16000000000003, 215.18750000000003, 215.21500000000003, 215.24250000000004, 215.27000000000004, 215.29750000000004, 215.32500000000002, 215.35250000000002, 215.38000000000002, 215.40750000000003, 215.43500000000003, 215.46250000000003, 215.49000000000004, 215.51750000000004, 215.54500000000002, 215.57250000000002, 215.60000000000002, 215.62750000000003, 215.65500000000003, 215.68250000000003, 215.71000000000004, 215.73750000000004, 215.76500000000001, 215.79250000000002, 215.82000000000002, 215.84750000000003, 215.87500000000003, 215.90250000000003, 215.93000000000004, 215.95750000000004, 215.98500000000004, 216.01250000000002, 216.04000000000002, 216.06750000000002, 216.09500000000003, 216.12250000000003, 216.15000000000003, 216.17750000000004, 216.20500000000004, 216.23250000000002, 216.26000000000002, 216.28750000000002, 216.31500000000003, 216.34250000000003, 216.37000000000003, 216.39750000000004, 216.42500000000004, 216.45250000000001, 216.48000000000002, 216.50750000000002, 216.53500000000003, 216.56250000000003, 216.59000000000003, 216.61750000000004, 216.64500000000004, 216.67250000000004, 216.70000000000002, 216.72750000000002, 216.75500000000002, 216.78250000000003, 216.81000000000003, 216.83750000000003, 216.86500000000004, 216.89250000000004, 216.92000000000002, 216.94750000000002, 216.97500000000002, 217.00250000000003, 217.03000000000003}

Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
	236.85750000000002, 236.88500000000002, 236.91250000000002, 236.94000000000003, 236.96750000000003, 236.99500000000003, 237.02250000000004, 237.05000000000004, 237.07750000000004, 237.10500000000002, 237.13250000000002, 237.16000000000003, 237.18750000000003, 237.21500000000003, 237.24250000000004, 237.27000000000004, 237.29750000000004, 237.32500000000005, 237.35250000000002, 237.38000000000002, 237.40750000000003, 237.43500000000003, 237.46250000000003, 237.49000000000004, 237.51750000000004, 237.54500000000002, 237.57250000000002, 237.60000000000002, 237.62750000000003, 237.65500000000003, 237.68250000000003, 237.71000000000004, 237.73750000000004, 237.76500000000004, 237.79250000000002, 237.82000000000002, 237.84750000000003, 237.87500000000003, 237.90250000000003, 237.93000000000004, 237.95750000000004, 237.98500000000004, 238.01250000000005, 238.04000000000002, 238.06750000000002, 238.09500000000003, 238.12250000000003, 238.15000000000003, 238.17750000000004, 238.20500000000004, 238.23250000000002, 238.26000000000002, 238.28750000000002, 238.31500000000003, 238.34250000000003, 238.37000000000003, 238.39750000000004, 238.42500000000004, 238.45250000000004, 238.48000000000002, 238.50750000000002, 238.53500000000003, 238.56250000000003, 238.59000000000003, 238.61750000000004, 238.64500000000004, 238.67250000000004, 238.70000000000005, 238.72750000000002, 238.75500000000002, 238.78250000000003, 238.81000000000003, 238.83750000000003, 238.86500000000004, 238.89250000000004, 238.92000000000002, 238.94750000000002, 238.97500000000002, 239.00250000000003, 239.03000000000003, 239.05750000000003, 239.08500000000004, 239.11250000000004, 239.14000000000004, 239.16750000000002, 239.19500000000002, 239.22250000000003, 239.25000000000003, 239.27750000000003, 239.30500000000004, 239.33250000000004, 239.36000000000004, 239.38750000000005, 239.41500000000002, 239.44250000000002, 239.47000000000003, 239.49750000000003, 239.52500000000003, 239.55250000000004, 239.58000000000004, 239.60750000000002, 239.63500000000002, 239.66250000000002, 239.69000000000003, 239.71750000000003, 239.74500000000003, 239.77250000000004, 239.80000000000004, 239.82750000000004, 239.85500000000002, 239.88250000000002, 239.91000000000003, 239.93750000000003, 239.96500000000003, 239.99250000000004, 240.02000000000004, 240.04750000000004, 240.07500000000005, 240.10250000000002, 240.13000000000002, 240.15750000000003, 240.18500000000003, 240.21250000000003, 240.24000000000004, 240.26750000000004, 240.29500000000002, 240.32250000000005, 240.35000000000002, 240.37750000000003, 240.40500000000003, 240.43250000000003, 240.46000000000004, 240.48750000000004, 240.51500000000004, 240.54250000000002, 240.57000000000002, 240.59750000000003, 240.62500000000003, 240.65250000000003, 240.68000000000004, 240.70750000000004, 240.73500000000004, 240.76250000000005, 240.79000000000002,

Description	Value
	240.81750000000002, 240.84500000000003, 240.87250000000003, 240.90000000000003, 240.92750000000004, 240.95500000000004, 240.98250000000002, 241.01000000000005, 241.03750000000002, 241.06500000000003, 241.09250000000003, 241.12000000000003, 241.14750000000004, 241.17500000000004, 241.20250000000004, 241.23000000000002, 241.25750000000002, 241.28500000000003, 241.31250000000003, 241.34000000000003, 241.36750000000004, 241.39500000000004, 241.42250000000004, 241.45000000000005, 241.47750000000002, 241.50500000000002, 241.53250000000003, 241.56000000000003, 241.58750000000003, 241.61500000000004, 241.64250000000004, 241.67000000000004, 241.69750000000005, 241.72500000000002, 241.75250000000003, 241.78000000000003, 241.80750000000003, 241.83500000000004, 241.86250000000004, 241.89000000000004, 241.91750000000002, 241.94500000000002, 241.97250000000003, 242.00000000000003}

MESH

Feature	Value
Geometry 1	mesh10

PHYSICS AND VARIABLES SELECTION

Physics interface	Discretization
Transport of Diluted Species in droplet (tds)	physics
Moving Mesh (ale)	physics

MESH SELECTION

Geometry	Mesh
Geometry 1 (geom1)	mesh10

4.2 SOLVER CONFIGURATIONS

4.2.1 Solution 4

Compile Equations: Time Dependent (st1)

STUDY AND STEP

Description	Value
Use study	Study 2 (CV 40 to 44)
Use study step	Time Dependent

LOG

```

<---- Compile Equations: Time Dependent in Study 2 (CV 40 to 44)/Solution 4
(sol4) -----
Started at Jun 21, 2023 12:18:29 PM.
Geometry shape function: Linear Lagrange
Running on Intel64 Family 6 Model 158 Stepping 10, GenuineIntel.
Using 1 socket with 6 cores in total on LAPTOP-2492RD8I.
Available memory: 32.27 GB.
Time: 1 s.
Physical memory: 2.37 GB
Virtual memory: 2.6 GB
Ended at Jun 21, 2023 12:18:30 PM.
----- Compile Equations: Time Dependent in Study 2 (CV 40 to 44)/Solution 4
(sol4) ----->

```

Dependent Variables 1 (v1)

INITIAL VALUES OF VARIABLES SOLVED FOR

Description	Value
Method	Solution
Solution	Remeshed Solution 1

RESIDUAL SCALING

Description	Value
Method	Manual

VALUES OF VARIABLES NOT SOLVED FOR

Description	Value
Method	Solution
Solution	Remeshed Solution 1

INITIAL VALUE CALCULATION CONSTANTS

Constant name	Initial value source
t	range(39*t_cv,t_tot/nb/200,44*t_cv)
timestep	0.0275[s]

LOG

```

<---- Dependent Variables 1 in Study 2 (CV 40 to 44)/Solution 4 (sol4) -----
Started at Jun 21, 2023 12:18:30 PM.
Initial values of variables solved for: Remeshed Solution 1 (sol3), t=214.5 s [Last]
.
Values of variables not solved for: Remeshed Solution 1 (sol3), t=214.5 s [Last].
Solution time: 0 s.
Physical memory: 2.37 GB
Virtual memory: 2.6 GB
Ended at Jun 21, 2023 12:18:30 PM.
----- Dependent Variables 1 in Study 2 (CV 40 to 44)/Solution 4 (sol4) ----->

```

Concentration (comp1.cOx) (comp1_cOx)

GENERAL

Description	Value
Field components	comp1.cOx
Internal variables	{comp1.uflux.cOx, comp1.dflux.cOx, comp1.tds.dt2Inv_cOx}

Concentration (comp1.cRed) (comp1_cRed)

GENERAL

Description	Value
Field components	comp1.cRed
Internal variables	{comp1.uflux.cRed, comp1.dflux.cRed, comp1.tds.dt2Inv_cRed}

Spatial mesh displacement (comp1.spatial.disp) (comp1_spatial_disp)

GENERAL

Description	Value
Field components	{comp1.spatial.u, comp1.spatial.w}

SCALING

Description	Value
Method	Manual
Scale	2.353429412580713E-7

comp1.RgZg (comp1_RgZg)

GENERAL

Description	Value
Field components	{Rg, Zg}
Solve for this field	Off

Time-Dependent Solver 1 (t1)

GENERAL

Description	Value
-------------	-------

Description	Value
Output times	{214.50000000000003, 214.52750000000003, 214.55500000000004, 214.58250000000004, 214.61000000000004, 214.63750000000002, 214.66500000000002, 214.69250000000002, 214.72000000000003, 214.74750000000003, 214.77500000000003, 214.80250000000004, 214.83000000000004, 214.85750000000002, 214.88500000000002, 214.91250000000002, 214.94000000000003, 214.96750000000003, 214.99500000000003, 215.02250000000004, 215.05000000000004, 215.07750000000001, 215.10500000000002, 215.13250000000002, 215.16000000000003, 215.18750000000003, 215.21500000000003, 215.24250000000004, 215.27000000000004, 215.29750000000004, 215.32500000000002, 215.35250000000002, 215.38000000000002, 215.40750000000003, 215.43500000000003, 215.46250000000003, 215.49000000000004, 215.51750000000004, 215.54500000000002, 215.57250000000002, 215.60000000000002, 215.62750000000003, 215.65500000000003, 215.68250000000003, 215.71000000000004, 215.73750000000004, 215.76500000000001, 215.79250000000002, 215.82000000000002, 215.84750000000003, 215.87500000000003, 215.90250000000003, 215.93000000000004, 215.95750000000004, 215.98500000000004, 216.01250000000002, 216.04000000000002, 216.06750000000002, 216.09500000000003, 216.12250000000003, 216.15000000000003, 216.17750000000004, 216.20500000000004, 216.23250000000002, 216.26000000000002, 216.28750000000002, 216.31500000000003, 216.34250000000003, 216.37000000000003, 216.39750000000004, 216.42500000000004, 216.45250000000001, 216.48000000000002, 216.50750000000002, 216.53500000000003, 216.56250000000003, 216.59000000000003, 216.61750000000004, 216.64500000000004, 216.67250000000004, 216.70000000000002, 216.72750000000002, 216.75500000000002, 216.78250000000003, 216.81000000000003, 216.83750000000003, 216.86500000000004, 216.89250000000004, 216.92000000000002, 216.94750000000002, 216.97500000000002, 217.00250000000003, 217.03000000000003, 217.05750000000003, 217.08500000000004, 217.11250000000004, 217.14000000000004, 217.16750000000002, 217.19500000000002, 217.22250000000003, 217.25000000000003, 217.27750000000003, 217.30500000000004, 217.33250000000004, 217.36000000000004, 217.38750000000002, 217.41500000000002, 217.44250000000002, 217.47000000000003, 217.49750000000003, 217.52500000000003, 217.55250000000004, 217.58000000000004, 217.60750000000002, 217.63500000000002, 217.66250000000002, 217.69000000000003, 217.71750000000003, 217.74500000000003, 217.77250000000004, 217.80000000000004, 217.82750000000004, 217.85500000000002, 217.88250000000002, 217.91000000000003, 217.93750000000003, 217.96500000000003, 217.99250000000004, 218.02000000000004, 218.04750000000004, 218.07500000000002, 218.10250000000002, 218.13000000000002, 218.15750000000003, 218.18500000000003, 218.21250000000003, 218.24000000000004, 218.26750000000004, 218.29500000000002, 218.32250000000002, 218.35000000000002,

Description	Value
	218.37750000000003, 218.40500000000003, 218.43250000000003, 218.46000000000004, 218.48750000000004, 218.51500000000004, 218.54250000000002, 218.57000000000002, 218.59750000000003, 218.62500000000003, 218.65250000000003, 218.68000000000004, 218.70750000000004, 218.73500000000004, 218.76250000000002, 218.79000000000002, 218.81750000000002, 218.84500000000003, 218.87250000000003, 218.90000000000003, 218.92750000000004, 218.95500000000004, 218.98250000000002, 219.01000000000002, 219.03750000000002, 219.06500000000003, 219.09250000000003, 219.12000000000003, 219.14750000000004, 219.17500000000004, 219.20250000000004, 219.23000000000002, 219.25750000000002, 219.28500000000003, 219.31250000000003, 219.34000000000003, 219.36750000000004, 219.39500000000004, 219.42250000000004, 219.45000000000002, 219.47750000000002, 219.50500000000002, 219.53250000000003, 219.56000000000003, 219.58750000000003, 219.61500000000004, 219.64250000000004, 219.67000000000002, 219.69750000000002, 219.72500000000002, 219.75250000000003, 219.78000000000003, 219.80750000000003, 219.83500000000004, 219.86250000000004, 219.89000000000004, 219.91750000000002, 219.94500000000002, 219.97250000000003, 220.00000000000003, 220.02750000000003, 220.05500000000004, 220.08250000000004, 220.11000000000004, 220.13750000000002, 220.16500000000002, 220.19250000000002, 220.22000000000003, 220.24750000000003, 220.27500000000003, 220.30250000000004, 220.33000000000004, 220.35750000000002, 220.38500000000002, 220.41250000000002, 220.44000000000003, 220.46750000000003, 220.49500000000003, 220.52250000000004, 220.55000000000004, 220.57750000000004, 220.60500000000002, 220.63250000000002, 220.66000000000003, 220.68750000000003, 220.71500000000003, 220.74250000000004, 220.77000000000004, 220.79750000000004, 220.82500000000002, 220.85250000000002, 220.88000000000002, 220.90750000000003, 220.93500000000003, 220.96250000000003, 220.99000000000004, 221.01750000000004, 221.04500000000002, 221.07250000000002, 221.10000000000002, 221.12750000000003, 221.15500000000003, 221.18250000000003, 221.21000000000004, 221.23750000000004, 221.26500000000004, 221.29250000000002, 221.32000000000002, 221.34750000000003, 221.37500000000003, 221.40250000000003, 221.43000000000004, 221.45750000000004, 221.48500000000004, 221.51250000000002, 221.54000000000002, 221.56750000000002, 221.59500000000003, 221.62250000000003, 221.65000000000003, 221.67750000000004, 221.70500000000004, 221.73250000000002, 221.76000000000002, 221.78750000000002, 221.81500000000003, 221.84250000000003, 221.87000000000003, 221.89750000000004, 221.92500000000004, 221.95250000000004, 221.98000000000002, 222.00750000000002, 222.03500000000003, 222.06250000000003, 222.09000000000003, 222.11750000000004, 222.14500000000004, 222.17250000000004, 222.20000000000002, 222.22750000000002,

Description	Value
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Description	Value
	226.13250000000002, 226.16000000000003, 226.18750000000003, 226.21500000000003, 226.24250000000004, 226.27000000000004, 226.29750000000004, 226.32500000000002, 226.35250000000002, 226.38000000000002, 226.40750000000003, 226.43500000000003, 226.46250000000003, 226.49000000000004, 226.51750000000004, 226.54500000000002, 226.57250000000002, 226.60000000000002, 226.62750000000003, 226.65500000000003, 226.68250000000003, 226.71000000000004, 226.73750000000004, 226.76500000000004, 226.79250000000002, 226.82000000000002, 226.84750000000003, 226.87500000000003, 226.90250000000003, 226.93000000000004, 226.95750000000004, 226.98500000000004, 227.01250000000002, 227.04000000000002, 227.06750000000002, 227.09500000000003, 227.12250000000003, 227.15000000000003, 227.17750000000004, 227.20500000000004, 227.23250000000002, 227.26000000000002, 227.28750000000002, 227.31500000000003, 227.34250000000003, 227.37000000000003, 227.39750000000004, 227.42500000000004, 227.45250000000004, 227.48000000000002, 227.50750000000002, 227.53500000000003, 227.56250000000003, 227.59000000000003, 227.61750000000004, 227.64500000000004, 227.67250000000004, 227.70000000000002, 227.72750000000002, 227.75500000000002, 227.78250000000003, 227.81000000000003, 227.83750000000003, 227.86500000000004, 227.89250000000004, 227.92000000000002, 227.94750000000002, 227.97500000000002, 228.00250000000003, 228.03000000000003, 228.05750000000003, 228.08500000000004, 228.11250000000004, 228.14000000000004, 228.16750000000002, 228.19500000000002, 228.22250000000003, 228.25000000000003, 228.27750000000003, 228.30500000000004, 228.33250000000004, 228.36000000000004, 228.38750000000002, 228.41500000000002, 228.44250000000002, 228.47000000000003, 228.49750000000003, 228.52500000000003, 228.55250000000004, 228.58000000000004, 228.60750000000002, 228.63500000000002, 228.66250000000002, 228.69000000000003, 228.71750000000003, 228.74500000000003, 228.77250000000004, 228.80000000000004, 228.82750000000004, 228.85500000000002, 228.88250000000002, 228.91000000000003, 228.93750000000003, 228.96500000000003, 228.99250000000004, 229.02000000000004, 229.04750000000004, 229.07500000000002, 229.10250000000002, 229.13000000000002, 229.15750000000003, 229.18500000000003, 229.21250000000003, 229.24000000000004, 229.26750000000004, 229.29500000000002, 229.32250000000002, 229.35000000000002, 229.37750000000003, 229.40500000000003, 229.43250000000003, 229.46000000000004, 229.48750000000004, 229.51500000000004, 229.54250000000002, 229.57000000000002, 229.59750000000003, 229.62500000000003, 229.65250000000003, 229.68000000000004, 229.70750000000004, 229.73500000000004, 229.76250000000005, 229.79000000000002, 229.81750000000002, 229.84500000000003, 229.87250000000003, 229.90000000000003, 229.92750000000004, 229.95500000000004, 229.98250000000002,

Description	Value
	230.01000000000002, 230.03750000000002, 230.06500000000003, 230.09250000000003, 230.12000000000003, 230.14750000000004, 230.17500000000004, 230.20250000000004, 230.23000000000002, 230.25750000000002, 230.28500000000003, 230.31250000000003, 230.34000000000003, 230.36750000000004, 230.39500000000004, 230.42250000000004, 230.45000000000005, 230.47750000000002, 230.50500000000002, 230.53250000000003, 230.56000000000003, 230.58750000000003, 230.61500000000004, 230.64250000000004, 230.67000000000002, 230.69750000000002, 230.72500000000002, 230.75250000000003, 230.78000000000003, 230.80750000000003, 230.83500000000004, 230.86250000000004, 230.89000000000004, 230.91750000000002, 230.94500000000002, 230.97250000000003, 231.00000000000003, 231.02750000000003, 231.05500000000004, 231.08250000000004, 231.11000000000004, 231.13750000000005, 231.16500000000002, 231.19250000000002, 231.22000000000003, 231.24750000000003, 231.27500000000003, 231.30250000000004, 231.33000000000004, 231.35750000000002, 231.38500000000002, 231.41250000000002, 231.44000000000003, 231.46750000000003, 231.49500000000003, 231.52250000000004, 231.55000000000004, 231.57750000000004, 231.60500000000002, 231.63250000000002, 231.66000000000003, 231.68750000000003, 231.71500000000003, 231.74250000000004, 231.77000000000004, 231.79750000000004, 231.82500000000005, 231.85250000000002, 231.88000000000002, 231.90750000000003, 231.93500000000003, 231.96250000000003, 231.99000000000004, 232.01750000000004, 232.04500000000002, 232.07250000000002, 232.10000000000002, 232.12750000000003, 232.15500000000003, 232.18250000000003, 232.21000000000004, 232.23750000000004, 232.26500000000004, 232.29250000000002, 232.32000000000002, 232.34750000000003, 232.37500000000003, 232.40250000000003, 232.43000000000004, 232.45750000000004, 232.48500000000004, 232.51250000000005, 232.54000000000002, 232.56750000000002, 232.59500000000003, 232.62250000000003, 232.65000000000003, 232.67750000000004, 232.70500000000004, 232.73250000000002, 232.76000000000002, 232.78750000000002, 232.81500000000003, 232.84250000000003, 232.87000000000003, 232.89750000000004, 232.92500000000004, 232.95250000000004, 232.98000000000002, 233.00750000000002, 233.03500000000003, 233.06250000000003, 233.09000000000003, 233.11750000000004, 233.14500000000004, 233.17250000000004, 233.20000000000005, 233.22750000000002, 233.25500000000002, 233.28250000000003, 233.31000000000003, 233.33750000000003, 233.36500000000004, 233.39250000000004, 233.42000000000002, 233.44750000000002, 233.47500000000002, 233.50250000000003, 233.53000000000003, 233.55750000000003, 233.58500000000004, 233.61250000000004, 233.64000000000004, 233.66750000000002, 233.69500000000002, 233.72250000000003, 233.75000000000003, 233.77750000000003, 233.80500000000004, 233.83250000000004, 233.86000000000004,

Description	Value
	233.88750000000005, 233.91500000000002, 233.94250000000002, 233.97000000000003, 233.99750000000003, 234.02500000000003, 234.05250000000004, 234.08000000000004, 234.10750000000002, 234.13500000000002, 234.16250000000002, 234.19000000000003, 234.21750000000003, 234.24500000000003, 234.27250000000004, 234.30000000000004, 234.32750000000004, 234.35500000000002, 234.38250000000002, 234.41000000000003, 234.43750000000003, 234.46500000000003, 234.49250000000004, 234.52000000000004, 234.54750000000004, 234.57500000000005, 234.60250000000002, 234.63000000000002, 234.65750000000003, 234.68500000000003, 234.71250000000003, 234.74000000000004, 234.76750000000004, 234.79500000000002, 234.82250000000002, 234.85000000000002, 234.87750000000003, 234.90500000000003, 234.93250000000003, 234.96000000000004, 234.98750000000004, 235.01500000000004, 235.04250000000002, 235.07000000000002, 235.09750000000003, 235.12500000000003, 235.15250000000003, 235.18000000000004, 235.20750000000004, 235.23500000000004, 235.26250000000005, 235.29000000000002, 235.31750000000002, 235.34500000000003, 235.37250000000003, 235.40000000000003, 235.42750000000004, 235.45500000000004, 235.48250000000002, 235.51000000000002, 235.53750000000002, 235.56500000000003, 235.59250000000003, 235.62000000000003, 235.64750000000004, 235.67500000000004, 235.70250000000004, 235.73000000000002, 235.75750000000002, 235.78500000000003, 235.81250000000003, 235.84000000000003, 235.86750000000004, 235.89500000000004, 235.92250000000004, 235.95000000000005, 235.97750000000002, 236.00500000000002, 236.03250000000003, 236.06000000000003, 236.08750000000003, 236.11500000000004, 236.14250000000004, 236.17000000000002, 236.19750000000002, 236.22500000000002, 236.25250000000003, 236.28000000000003, 236.30750000000003, 236.33500000000004, 236.36250000000004, 236.39000000000004, 236.41750000000002, 236.44500000000002, 236.47250000000003, 236.50000000000003, 236.52750000000003, 236.55500000000004, 236.58250000000004, 236.61000000000004, 236.63750000000005, 236.66500000000002, 236.69250000000002, 236.72000000000003, 236.74750000000003, 236.77500000000003, 236.80250000000004, 236.83000000000004, 236.85750000000002, 236.88500000000002, 236.91250000000002, 236.94000000000003, 236.96750000000003, 236.99500000000003, 237.02250000000004, 237.05000000000004, 237.07750000000004, 237.10500000000002, 237.13250000000002, 237.16000000000003, 237.18750000000003, 237.21500000000003, 237.24250000000004, 237.27000000000004, 237.29750000000004, 237.32500000000005, 237.35250000000002, 237.38000000000002, 237.40750000000003, 237.43500000000003, 237.46250000000003, 237.49000000000004, 237.51750000000004, 237.54500000000002, 237.57250000000002, 237.60000000000002, 237.62750000000003, 237.65500000000003, 237.68250000000003, 237.71000000000004, 237.73750000000004,

Description	Value
	237.76500000000004, 237.79250000000002, 237.82000000000002, 237.84750000000003, 237.87500000000003, 237.90250000000003, 237.93000000000004, 237.95750000000004, 237.98500000000004, 238.01250000000005, 238.04000000000002, 238.06750000000002, 238.09500000000003, 238.12250000000003, 238.15000000000003, 238.17750000000004, 238.20500000000004, 238.23250000000002, 238.26000000000002, 238.28750000000002, 238.31500000000003, 238.34250000000003, 238.37000000000003, 238.39750000000004, 238.42500000000004, 238.45250000000004, 238.48000000000002, 238.50750000000002, 238.53500000000003, 238.56250000000003, 238.59000000000003, 238.61750000000004, 238.64500000000004, 238.67250000000004, 238.70000000000005, 238.72750000000002, 238.75500000000002, 238.78250000000003, 238.81000000000003, 238.83750000000003, 238.86500000000004, 238.89250000000004, 238.92000000000002, 238.94750000000002, 238.97500000000002, 239.00250000000003, 239.03000000000003, 239.05750000000003, 239.08500000000004, 239.11250000000004, 239.14000000000004, 239.16750000000002, 239.19500000000002, 239.22250000000003, 239.25000000000003, 239.27750000000003, 239.30500000000004, 239.33250000000004, 239.36000000000004, 239.38750000000005, 239.41500000000002, 239.44250000000002, 239.47000000000003, 239.49750000000003, 239.52500000000003, 239.55250000000004, 239.58000000000004, 239.60750000000002, 239.63500000000002, 239.66250000000002, 239.69000000000003, 239.71750000000003, 239.74500000000003, 239.77250000000004, 239.80000000000004, 239.82750000000004, 239.85500000000002, 239.88250000000002, 239.91000000000003, 239.93750000000003, 239.96500000000003, 239.99250000000004, 240.02000000000004, 240.04750000000004, 240.07500000000005, 240.10250000000002, 240.13000000000002, 240.15750000000003, 240.18500000000003, 240.21250000000003, 240.24000000000004, 240.26750000000004, 240.29500000000002, 240.32250000000005, 240.35000000000002, 240.37750000000003, 240.40500000000003, 240.43250000000003, 240.46000000000004, 240.48750000000004, 240.51500000000004, 240.54250000000002, 240.57000000000002, 240.59750000000003, 240.62500000000003, 240.65250000000003, 240.68000000000004, 240.70750000000004, 240.73500000000004, 240.76250000000005, 240.79000000000002, 240.81750000000002, 240.84500000000003, 240.87250000000003, 240.90000000000003, 240.92750000000004, 240.95500000000004, 240.98250000000002, 241.01000000000005, 241.03750000000002, 241.06500000000003, 241.09250000000003, 241.12000000000003, 241.14750000000004, 241.17500000000004, 241.20250000000004, 241.23000000000002, 241.25750000000002, 241.28500000000003, 241.31250000000003, 241.34000000000003, 241.36750000000004, 241.39500000000004, 241.42250000000004, 241.45000000000005, 241.47750000000002, 241.50500000000002, 241.53250000000003, 241.56000000000003, 241.58750000000003, 241.61500000000004,

Description	Value
	241.64250000000004, 241.67000000000004, 241.69750000000005, 241.72500000000002, 241.75250000000003, 241.78000000000003, 241.80750000000003, 241.83500000000004, 241.86250000000004, 241.89000000000004, 241.91750000000002, 241.94500000000002, 241.97250000000003, 242.00000000000003}
Relative tolerance	0.005

TIME STEPPING

Description	Value
Maximum BDF order	2
Nonlinear controller	On

LOG

-	234.52	- out									
-	234.55	- out									
381	234.57	0.055	6	4	6	2	0	0	3.7e-13	2.6e-15	
-	234.58	- out									
-	234.6	- out									
-	234.63	- out									
382	234.64	0.070034	10	6	10	2	1	0	1e-13	4.8e-15	
-	234.66	- out									
-	234.69	- out									
383	234.71	0.070034	12	7	12	2	1	0	4.1e-14	6.1e-15	
-	234.71	- out									
-	234.74	- out									
-	234.77	- out									
384	234.77	0.063031	14	8	14	2	1	0	1.1e-13	6.6e-15	
-	234.8	- out									
-	234.82	- out									
385	234.83	0.056727	16	9	16	2	1	0	9.1e-14	7.6e-15	
-	234.85	- out									
-	234.88	- out									
386	234.88	0.056727	18	10	18	1	1	0	2.4e-13	3.9e-15	
-	234.91	- out									
-	234.93	- out									
387	234.94	0.050733	20	11	20	1	1	0	1.2e-13	5.5e-15	
-	234.96	- out									
388	234.98	0.043626	22	12	22	1	1	0	1.6e-13	6.2e-15	
-	234.99	- out									
-	235.02	- out									
389	235.02	0.038946	24	13	24	1	1	0	1.1e-13	6.3e-15	
-	235.04	- out									
390	235.05	0.035052	26	14	26	1	1	0	2e-13	6.7e-15	
-	235.07	- out									
391	235.08	0.031547	28	15	28	1	1	0	1.4e-13	6.9e-15	
-	235.1	- out									
392	235.12	0.031547	30	16	30	1	1	0	2.7e-13	6.4e-15	
-	235.13	- out									
393	235.15	0.031547	32	17	32	1	1	0	7.3e-14	6.2e-15	
-	235.15	- out									
-	235.18	- out									
-	235.21	- out									
394	235.21	0.063093	34	18	34	2	1	0	1.5e-13	4.6e-15	
-	235.24	- out									
-	235.26	- out									
395	235.27	0.063093	36	19	36	2	1	0	5.7e-13	3.2e-15	
-	235.29	- out									
-	235.32	- out									
396	235.34	0.063093	38	20	38	2	1	0	3.4e-14	9.2e-15	
-	235.35	- out									
-	235.37	- out									
-	235.4	- out									
397	235.4	0.063093	40	21	40	2	1	0	6.1e-13	9e-15	
-	235.43	- out									
-	235.46	- out									
398	235.46	0.063093	42	22	42	2	1	0	6.3e-14	9.1e-15	
-	235.48	- out									
-	235.51	- out									
399	235.53	0.063093	44	23	44	2	1	0	3.2e-13	8.7e-15	

```

-      235.54      - out
-      235.57      - out
400    235.59      0.063093      46  24  46  2  1  0  2e-13  8.6e-15
-      235.59      - out
-      235.62      - out
-      235.65      - out
401    235.65      0.063093      48  25  48  2  1  0  2.2e-13  8.3e-15
-      235.65      - out
402    235.72      0.063093      50  26  50  2  1  0  5.1e-13  6.7e-15
Number of vertex elements: 3
Number of boundary elements: 112
Number of vertex elements: 3
Number of boundary elements: 112
Number of elements: 534
Minimum element quality: 0.5661
Number of vertex elements: 4
Number of boundary elements: 162
Number of vertex elements: 5
Number of boundary elements: 212
Number of vertex elements: 6
Number of boundary elements: 266
Minimum element quality: 0.3716
Geometry shape function: Linear Lagrange
Time interval 7
Time-dependent solver (BDF)
Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).
Nonsymmetric matrix found.
Scales for dependent variables:
Concentration (compl.cOx): 13
Concentration (compl.cRed): 7.1
Spatial mesh displacement (compl.spatial.disp): 2.4e-07
Step      Time      Stepsize      Res  Jac  Sol  Order  Tfail  NLfail  LinErr  LinRes
-      235.65      - out
-      235.68      - out
403    235.68      0.0275      2  2  2  1  0  0  1.9e-13  2.6e-15
-      235.7  - out
404    235.71      0.0275      4  3  4  1  0  0  6.8e-13  3.6e-15
-      235.73      - out
-      235.76      - out
405    235.76      0.055      6  4  6  2  0  0  1.2e-12  1.4e-15
-      235.79      - out
-      235.81      - out
406    235.82      0.055      8  5  8  2  0  0  8.5e-13  3e-15
-      235.84      - out
-      235.87      - out
407    235.87      0.055      10  6  10  2  0  0  1.5e-12  9e-15
-      235.9  - out
-      235.92      - out
408    235.93      0.055      12  7  12  2  0  0  3.8e-13  9.3e-15
-      235.95      - out
-      235.98      - out
409    235.98      0.055      14  8  14  2  0  0  6.3e-13  8.4e-15
-      236.01      - out
-      236.03      - out
410    236.04      0.055      16  9  16  2  0  0  4.1e-12  8.5e-15
-      236.06      - out

```

-	236.09	- out									
411	236.09	0.055	18	10	18	2	0	0	1.1e-12	8.3e-15	
-	236.12	- out									
-	236.14	- out									
412	236.15	0.055	20	11	20	2	0	0	1.5e-12	8.2e-15	
-	236.17	- out									
-	236.2	- out									
413	236.2	0.055	22	12	22	2	0	0	1.2e-12	7.8e-15	
-	236.23	- out									
-	236.25	- out									
414	236.26	0.055	24	13	24	2	0	0	4.4e-13	7.9e-15	
-	236.28	- out									
-	236.31	- out									
415	236.31	0.055	26	14	26	2	0	0	2.9e-13	7.3e-15	
-	236.34	- out									
-	236.36	- out									
416	236.37	0.055	28	15	28	2	0	0	2.6e-12	7.1e-15	
-	236.39	- out									
-	236.42	- out									
417	236.42	0.055	30	16	30	2	0	0	2e-12	6.4e-15	
-	236.45	- out									
-	236.47	- out									
418	236.48	0.055	32	17	32	2	0	0	5e-13	6.2e-15	
-	236.5	- out									
419	236.5	0.023835	36	19	36	2	1	0	1.9e-12	5.1e-15	
420	236.52	0.015531	40	21	40	2	2	0	1.7e-12	6.3e-15	
-	236.53	- out									
421	236.53	0.013761	42	22	42	2	2	0	3.1e-12	5.3e-15	
422	236.54	0.012385	44	23	44	2	2	0	1.5e-13	1.1e-13	
-	236.56	- out									
423	236.56	0.012385	46	24	46	2	2	0	2e-13	9.9e-14	
424	236.57	0.012385	48	25	48	2	2	0	1.7e-13	5.3e-14	
425	236.58	0.012385	50	26	50	2	2	0	4.4e-13	1.1e-14	
-	236.58	- out									
426	236.6	0.02477	52	27	52	2	2	0	3.2e-13	6e-15	
-	236.61	- out									
-	236.64	- out									
427	236.65	0.049541	54	28	54	2	2	0	3.5e-12	4.6e-15	
-	236.67	- out									
-	236.69	- out									
428	236.7	0.049541	56	29	56	2	2	0	5.2e-12	5.4e-15	
-	236.72	- out									
-	236.75	- out									
429	236.75	0.049541	58	30	58	2	2	0	3.8e-12	5.5e-15	
-	236.78	- out									
-	236.8	- out									
430	236.8	0.049541	60	31	60	2	2	0	6.1e-12	5.8e-15	
-	236.83	- out									
431	236.85	0.049541	62	32	62	2	2	0	2.2e-13	6.3e-15	
-	236.86	- out									
-	236.89	- out									
432	236.9	0.049541	64	33	64	2	2	0	4e-12	6.9e-15	
-	236.91	- out									
-	236.94	- out									
433	236.95	0.049541	66	34	66	2	2	0	9.9e-13	7.1e-15	
-	236.97	- out									

```

-          237          - out
434         237      0.049541      68  35  68    2    2    0  2.3e-12  7.3e-15
-        237.02          - out
-        237.05          - out
435         237.05    0.049541      70  36  70    2    2    0  5.1e-13  7.2e-15
-        237.08          - out
436         237.1     0.049541      72  37  72    2    2    0  2.7e-13  7.4e-15
-        237.1          - out
437         237.15    0.049541      74  38  74    2    2    0  8.2e-13  7.1e-15

```

```

Number of vertex elements: 3
Number of boundary elements: 112
Number of vertex elements: 3
Number of boundary elements: 112
Number of elements: 534
Minimum element quality: 0.5661
Number of vertex elements: 4
Number of boundary elements: 162
Number of vertex elements: 5
Number of boundary elements: 212
Number of vertex elements: 6
Number of boundary elements: 266
Minimum element quality: 0.349
Geometry shape function: Linear Lagrange
Time interval 8
Time-dependent solver (BDF)

```

Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).

Nonsymmetric matrix found.

Scales for dependent variables:

Concentration (compl.cOx): 13

Concentration (compl.cRed): 5.3

Spatial mesh displacement (compl.spatial.disp): 2.4e-07

Step	Time	Stepsize	Res	Jac	Sol	Order	Tfail	NLfail	LinErr	LinRes
-	237.1	- out								
-	237.11	- out								
438	237.13	0.0275	2	2	2	1	0	0	4.8e-13	8.8e-16
-	237.13	- out								
439	237.16	0.0275	4	3	4	1	0	0	1.3e-12	3.4e-15
-	237.16	- out								
-	237.19	- out								
440	237.21	0.055	6	4	6	2	0	0	7.8e-13	7.7e-15
-	237.22	- out								
-	237.24	- out								
441	237.27	0.055	8	5	8	2	0	0	2.2e-13	5.5e-15
-	237.27	- out								
-	237.3	- out								
442	237.32	0.055	10	6	10	2	0	0	1e-12	7.5e-15
-	237.33	- out								
-	237.35	- out								
443	237.38	0.055	12	7	12	2	0	0	4.4e-13	7.8e-15
-	237.38	- out								
-	237.41	- out								
444	237.43	0.055	14	8	14	2	0	0	1.5e-13	7.5e-15
-	237.44	- out								
-	237.46	- out								
445	237.49	0.055	16	9	16	2	0	0	7.5e-13	7.9e-15
-	237.49	- out								

-	237.52	- out									
446	237.54	0.055	18	10	18	2	0	0	1.5e-12	8e-15	
-	237.55	- out									
-	237.57	- out									
447	237.6	0.055	20	11	20	2	0	0	3.9e-13	7.6e-15	
-	237.6	- out									
-	237.63	- out									
448	237.65	0.055	22	12	22	2	0	0	3.7e-13	7.8e-15	
-	237.66	- out									
-	237.68	- out									
449	237.71	0.055	24	13	24	2	0	0	8.4e-13	8.1e-15	
-	237.71	- out									
-	237.74	- out									
450	237.76	0.055	26	14	26	2	0	0	7.4e-13	8e-15	
-	237.77	- out									
-	237.79	- out									
451	237.82	0.055	28	15	28	2	0	0	2.7e-13	7.7e-15	
-	237.82	- out									
-	237.85	- out									
452	237.87	0.055	30	16	30	2	0	0	3.9e-13	7.9e-15	
-	237.88	- out									
-	237.9	- out									
453	237.93	0.055	32	17	32	2	0	0	3.3e-13	8.2e-15	
-	237.93	- out									
-	237.96	- out									
454	237.98	0.055	34	18	34	2	0	0	2.8e-13	7.7e-15	
-	237.99	- out									
-	238.01	- out									
455	238.04	0.055	36	19	36	2	0	0	2.7e-13	7.6e-15	
-	238.04	- out									
456	238.09	0.055	38	20	38	2	0	0	6.2e-13	7.7e-15	

Number of vertex elements: 3

Number of boundary elements: 112

Number of vertex elements: 3

Number of boundary elements: 112

Number of elements: 534

Minimum element quality: 0.5661

Number of vertex elements: 4

Number of boundary elements: 162

Number of vertex elements: 5

Number of boundary elements: 212

Number of vertex elements: 6

Number of boundary elements: 266

Minimum element quality: 0.3041

Geometry shape function: Linear Lagrange

Time interval 9

Time-dependent solver (BDF)

Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).

Nonsymmetric matrix found.

Scales for dependent variables:

Concentration (compl.cOx): 26

Concentration (compl.cRed): 16

Spatial mesh displacement (compl.spatial.disp): 2.4e-07

Step	Time	Stepsize	Res	Jac	Sol	Order	Tfail	NLfail	LinErr	LinRes
-	238.04	- out								
-	238.04	- out								

457	238.06	0.0275	2	2	2	1	0	0	4.9e-13	7.3e-15
-	238.07	- out								
458	238.09	0.0275	4	3	4	1	0	0	1.2e-13	6.9e-15
-	238.1	- out								
-	238.12	- out								
459	238.15	0.055	6	4	6	2	0	0	2.2e-13	9e-15
-	238.15	- out								
-	238.18	- out								
460	238.2	0.055	8	5	8	2	0	0	2.2e-13	1e-14
-	238.21	- out								
-	238.23	- out								
461	238.26	0.055	10	6	10	2	0	0	1.7e-13	6e-15
-	238.26	- out								
-	238.29	- out								
-	238.32	- out								
-	238.34	- out								
462	238.37	0.11	12	7	12	2	0	0	1.5e-13	6.2e-15
-	238.37	- out								
-	238.4	- out								
-	238.43	- out								
463	238.44	0.073032	16	9	16	2	1	0	3.2e-13	6e-15
-	238.45	- out								
-	238.48	- out								
-	238.51	- out								
464	238.51	0.073032	18	10	18	2	1	0	4.7e-13	4.8e-15
-	238.54	- out								
465	238.55	0.043154	22	12	22	1	2	0	1.7e-13	4.5e-15
-	238.56	- out								
-	238.59	- out								
466	238.6	0.043154	24	13	24	1	2	0	3.3e-13	4.6e-15
-	238.62	- out								
467	238.63	0.034829	26	14	26	1	2	0	5.4e-13	4.4e-15
-	238.65	- out								
468	238.66	0.028325	28	15	28	1	2	0	1.6e-13	5.2e-15
-	238.67	- out								
469	238.69	0.024585	30	16	30	1	2	0	9.3e-14	4.1e-15
-	238.7	- out								
470	238.71	0.022127	32	17	32	1	2	0	6.8e-14	3.5e-15
-	238.73	- out								
471	238.73	0.019914	34	18	34	1	2	0	1e-13	4e-15
472	238.75	0.017923	36	19	36	1	2	0	7.3e-14	4.4e-15
-	238.76	- out								
473	238.76	0.017923	38	20	38	1	2	0	1.8e-13	4.4e-15
474	238.78	0.017923	40	21	40	1	2	0	1.1e-13	4.9e-15
-	238.78	- out								
-	238.81	- out								
475	238.82	0.035845	42	22	42	2	2	0	9.1e-14	4.5e-15
-	238.84	- out								
476	238.85	0.035845	44	23	44	2	2	0	1.2e-12	4.5e-15
-	238.87	- out								
477	238.89	0.035845	46	24	46	2	2	0	3.9e-14	3.1e-15
-	238.89	- out								
-	238.92	- out								
478	238.92	0.035845	48	25	48	2	2	0	4.5e-13	3.9e-15
-	238.95	- out								
479	238.96	0.035845	50	26	50	2	2	0	1e-13	3.9e-15

-	238.98	- out								
480	239	0.035845	52	27	52	2	2	0	5e-13	2.9e-15
-	239	- out								
-	239.03	- out								
481	239.03	0.035845	54	28	54	2	2	0	1.7e-13	2.9e-15
-	239.06	- out								
482	239.07	0.035845	56	29	56	2	2	0	5.5e-13	4e-15
-	239.09	- out								
483	239.1	0.032261	58	30	58	2	2	0	1.2e-12	4.9e-15
-	239.11	- out								
484	239.13	0.032261	60	31	60	2	2	0	9.5e-13	3.3e-15
-	239.14	- out								
485	239.16	0.032261	62	32	62	2	2	0	4.3e-13	4.4e-15
-	239.17	- out								
-	239.2	- out								
486	239.2	0.032261	64	33	64	2	2	0	3.1e-13	4.6e-15
-	239.22	- out								
487	239.23	0.032261	66	34	66	2	2	0	1.4e-12	3e-15
488	239.24	0.014301	70	36	70	2	3	0	2.9e-13	3e-15
-	239.25	- out								
489	239.25	0.0083336	75	38	75	2	4	0	2.1e-12	6.3e-15
490	239.26	0.0049804	79	40	79	2	5	0	5.5e-13	2e-14
491	239.26	0.0049804	81	41	81	2	5	0	2.8e-13	1.7e-14
492	239.27	0.0044824	83	42	83	2	5	0	2.8e-14	4.7e-14
493	239.27	0.0044824	85	43	85	1	5	0	3e-13	4e-15
-	239.28	- out								
494	239.28	0.0089648	87	44	87	1	5	0	4.2e-13	2.7e-15
495	239.29	0.0089648	89	45	89	1	5	0	2.9e-13	4.2e-15
496	239.3	0.0089648	91	46	91	1	5	0	2.7e-13	3.7e-15
-	239.31	- out								
497	239.32	0.01793	93	47	93	2	5	0	1.3e-13	2.9e-15
-	239.33	- out								
498	239.33	0.01793	95	48	95	2	5	0	5.9e-13	3.2e-15
499	239.35	0.01793	97	49	97	2	5	0	1.2e-12	4.8e-15
-	239.36	- out								
500	239.37	0.01793	99	50	99	2	5	0	5e-13	4.5e-15
501	239.39	0.01793	101	51	101	2	5	0	2.1e-13	4.4e-15
-	239.39	- out								
502	239.41	0.01793	103	52	103	2	5	0	4.3e-13	3.1e-15
-	239.42	- out								
503	239.42	0.01793	105	53	105	2	5	0	9.2e-14	3.1e-15
504	239.44	0.01793	107	54	107	2	5	0	2.8e-13	2.9e-15
-	239.44	- out								
505	239.46	0.01793	109	55	109	2	5	0	3.5e-13	5.7e-15
-	239.47	- out								
506	239.48	0.01793	111	56	111	2	5	0	3.3e-13	4.7e-15
507	239.5	0.01793	113	57	113	2	5	0	3.1e-13	4.6e-15
-	239.5	- out								
508	239.51	0.01793	115	58	115	2	5	0	3e-13	3.7e-15
-	239.53	- out								
509	239.53	0.01793	117	59	117	2	5	0	1.7e-13	4.1e-15
510	239.55	0.01793	119	60	119	2	5	0	1.4e-13	4.3e-15
-	239.55	- out								
511	239.57	0.01793	121	61	121	2	5	0	3.4e-13	3.8e-15
-	239.58	- out								
512	239.58	0.01793	123	62	123	2	5	0	3.4e-13	3.8e-15

513	239.6	0.01793	125	63	125	2	5	0	9.3e-14	3.6e-15
-	239.61	- out								
514	239.62	0.01793	127	64	127	2	5	0	2.8e-13	3.7e-15
-	239.64	- out								
515	239.64	0.01793	129	65	129	2	5	0	3.3e-13	3.3e-15
-	239.66	- out								
516	239.67	0.035859	131	66	131	2	5	0	5.8e-13	3.9e-15
-	239.69	- out								
517	239.71	0.035859	133	67	133	2	5	0	3.8e-13	4.9e-15
-	239.72	- out								
-	239.75	- out								
518	239.75	0.035859	135	68	135	2	5	0	8.3e-14	4.9e-15
-	239.77	- out								
519	239.78	0.035859	137	69	137	2	5	0	3.4e-13	4.1e-15
-	239.8	- out								
520	239.82	0.035859	139	70	139	2	5	0	3.4e-13	5e-15
-	239.83	- out								
521	239.85	0.035859	141	71	141	2	5	0	1.4e-13	4.5e-15
-	239.86	- out								
-	239.88	- out								
-	239.91	- out								
522	239.93	0.071718	143	72	143	2	5	0	1.7e-12	4.6e-15
-	239.94	- out								
-	239.97	- out								
-	239.99	- out								
523	240	0.071718	145	73	145	2	5	0	3.3e-13	5.5e-15
-	240.02	- out								
-	240.05	- out								
524	240.06	0.064546	147	74	147	2	5	0	1.1e-12	6e-15
-	240.08	- out								
-	240.1	- out								
525	240.12	0.058092	149	75	149	2	5	0	2.2e-12	6.3e-15
-	240.13	- out								
-	240.16	- out								
526	240.18	0.058092	151	76	151	1	5	0	4.4e-13	5.1e-15
-	240.19	- out								
-	240.21	- out								
527	240.24	0.058092	153	77	153	1	5	0	6.5e-14	6.4e-15
-	240.24	- out								
-	240.27	- out								
528	240.28	0.048992	155	78	155	1	5	0	1.6e-12	6.5e-15
-	240.3	- out								
-	240.32	- out								
529	240.33	0.04124	157	79	157	1	5	0	1.7e-13	6.6e-15
-	240.35	- out								
530	240.36	0.037116	159	80	159	1	5	0	2.3e-13	6.5e-15
-	240.36	- out								
531	240.4	0.033404	161	81	161	1	5	0	2.1e-12	6.8e-15

Number of vertex elements: 3
 Number of boundary elements: 112
 Number of vertex elements: 3
 Number of boundary elements: 112
 Number of elements: 534
 Minimum element quality: 0.5661
 Number of vertex elements: 4
 Number of boundary elements: 162

Number of vertex elements: 5
 Number of boundary elements: 212
 Number of vertex elements: 6
 Number of boundary elements: 266
 Minimum element quality: 0.1707
 Geometry shape function: Linear Lagrange
 Time interval 10
 Time-dependent solver (BDF)
 Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).
 Nonsymmetric matrix found.
 Scales for dependent variables:
 Concentration (compl.cOx): 45
 Concentration (compl.cRed): 31
 Spatial mesh displacement (compl.spatial.disp): 2.4e-07

Step	Time	Stepsize	Res	Jac	Sol	Order	Tfail	NLfail	LinErr	LinRes
-	240.36	- out								
-	240.38	- out								
532	240.39	0.0275	2	2	2	1	0	0	3.6e-13	5.4e-15
-	240.41	- out								
533	240.42	0.0275	4	3	4	1	0	0	2.2e-13	6.6e-15
-	240.43	- out								
-	240.46	- out								
534	240.47	0.055	6	4	6	2	0	0	1.2e-12	6.9e-15
-	240.49	- out								
-	240.52	- out								
535	240.53	0.055	8	5	8	2	0	0	3.6e-12	9.4e-15
-	240.54	- out								
-	240.57	- out								
536	240.58	0.055	10	6	10	2	0	0	5.2e-13	9.3e-15
-	240.6	- out								
-	240.63	- out								
537	240.64	0.055	12	7	12	2	0	0	2.7e-12	9.3e-15
-	240.65	- out								
-	240.68	- out								
538	240.69	0.055	14	8	14	2	0	0	4.2e-12	9.5e-15
-	240.71	- out								
-	240.74	- out								
539	240.75	0.055	16	9	16	2	0	0	5.2e-12	1e-14
-	240.76	- out								
-	240.79	- out								
540	240.8	0.055	18	10	18	2	0	0	3.5e-12	9.6e-15
-	240.82	- out								
-	240.85	- out								
541	240.86	0.055	20	11	20	2	0	0	6.4e-12	1e-14
-	240.87	- out								
-	240.9	- out								
542	240.91	0.055	22	12	22	2	0	0	5.5e-12	1.2e-14
-	240.93	- out								
-	240.96	- out								
543	240.97	0.055	24	13	24	2	0	0	2.2e-12	1.3e-14
-	240.98	- out								
-	241.01	- out								
544	241.02	0.055	26	14	26	2	0	0	1.3e-11	1.5e-14
-	241.04	- out								
-	241.07	- out								
545	241.08	0.055	28	15	28	2	0	0	9.2e-12	1.8e-14

-	241.09	- out									
-	241.12	- out									
546	241.13	0.055	30	16	30	2	0	0	1.1e-11	2.2e-14	
-	241.15	- out									
-	241.18	- out									
547	241.19	0.055	32	17	32	2	0	0	1.9e-11	2.7e-14	
-	241.2	- out									
-	241.23	- out									
548	241.24	0.055	34	18	34	2	0	0	1.1e-11	3.8e-14	
-	241.26	- out									
-	241.29	- out									
549	241.3	0.055	36	19	36	2	0	0	2.5e-11	5e-14	
-	241.31	- out									
-	241.34	- out									
550	241.35	0.055	38	20	38	2	0	0	1.3e-11	6.7e-14	
-	241.37	- out									
-	241.4	- out									
551	241.41	0.055	40	21	40	2	0	0	2.8e-11	1e-13	
-	241.41	- out									
552	241.46	0.055	42	22	42	2	0	0	4.2e-11	1.3e-13	

Number of vertex elements: 3
 Number of boundary elements: 112
 Number of vertex elements: 3
 Number of boundary elements: 112
 Number of elements: 534
 Minimum element quality: 0.5661
 Number of vertex elements: 4
 Number of boundary elements: 162
 Number of vertex elements: 5
 Number of boundary elements: 212
 Number of vertex elements: 6
 Number of boundary elements: 266
 Minimum element quality: 0.04508
 Geometry shape function: Linear Lagrange

Time interval 11
 Time-dependent solver (BDF)
 Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).

Nonsymmetric matrix found.
 Scales for dependent variables:
 Concentration (compl.cOx): 69
 Concentration (compl.cRed): 19

Spatial mesh displacement (compl.spatial.disp): 2.4e-07

Step	Time	Stepsize	Res	Jac	Sol	Order	Tfail	NLfail	LinErr	LinRes
-	241.41	- out								
-	241.42	- out								
553	241.44	0.0275	2	2	2	1	0	0	2.6e-11	2.3e-13
-	241.45	- out								
554	241.46	0.0275	4	3	4	1	0	0	2.7e-11	2.5e-13
-	241.48	- out								
-	241.51	- out								
555	241.52	0.055	6	4	6	2	0	0	5.6e-11	1.6e-13
-	241.53	- out								
-	241.56	- out								
556	241.57	0.055	8	5	8	2	0	0	1.2e-10	4.7e-13
-	241.57	- out								
557	241.59	0.01375	11	6	10	2	0	1	1.4e-11	2.2e-13

Number of vertex elements: 3
 Number of boundary elements: 112
 Number of vertex elements: 3
 Number of boundary elements: 112
 Number of elements: 534
 Minimum element quality: 0.5661
 Number of vertex elements: 4
 Number of boundary elements: 162
 Number of vertex elements: 5
 Number of boundary elements: 212
 Number of vertex elements: 6
 Number of boundary elements: 266
 Minimum element quality: 0.0002336
 Geometry shape function: Linear Lagrange
 Time interval 12
 Time-dependent solver (BDF)
 Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).
 Nonsymmetric matrix found.
 Scales for dependent variables:
 Concentration (compl.cOx): 97
 Concentration (compl.cRed): 23
 Spatial mesh displacement (compl.spatial.disp): 2.4e-07

Step	Time	Stepsize	Res	Jac	Sol	Order	Tfail	NLfail	LinErr	LinRes
-	241.57	-	out							
-	241.59	-	out							
558	241.6	0.0275	2	2	2	1	0	0	9.7e-11	3.9e-13
559	241.61	0.006875	5	3	4	1	0	1	6.9e-11	2.7e-13
-	241.61	-	out							
560	241.61	0.0059813	8	4	5	1	0	3	7.3e-11	3.7e-13

 Number of vertex elements: 3
 Number of boundary elements: 112
 Number of vertex elements: 3
 Number of boundary elements: 112
 Number of elements: 534
 Minimum element quality: 0.5661
 Number of vertex elements: 4
 Number of boundary elements: 162
 Number of vertex elements: 5
 Number of boundary elements: 212
 Number of vertex elements: 6
 Number of boundary elements: 266
 Minimum element quality: 0.5661
 Solution time: 494 s. (8 minutes, 14 seconds)
 Physical memory: 2.6 GB
 Virtual memory: 2.8 GB
 Ended at Jun 21, 2023 12:26:44 PM.
 ----- Time-Dependent Solver 1 in Study 2 (CV 40 to 44)/Solution 4 (sol4) ----->

Advanced (aDef)

ASSEMBLY SETTINGS

Description	Value
Reuse sparsity pattern	On

Fully Coupled 1 (fc1)

GENERAL

Description	Value
Linear solver	Direct 1

METHOD AND TERMINATION

Description	Value
Damping factor	0.9
Jacobian update	Once per time step
Maximum number of iterations	8
Stabilization and acceleration	Anderson acceleration
Dimension of iteration space	5

Automatic Remeshing 1 (ar1)

GENERAL

Description	Value
Remesh in geometry	Geometry 1

CONDITION FOR REMESHING

Description	Value
Condition type	Distortion
Stop when distortion exceeds	1.5

OUTPUT

Description	Value
Solution	Remeshed Solution 2
Meshes	{mesh11, mesh12, mesh13, mesh14, mesh15, mesh16, mesh17, mesh18, mesh19, mesh20, mesh21, mesh22}

5 Study 3 (CV 21 to 30)

COMPUTATION INFORMATION

Computation time	11 min 46 s
------------------	-------------

5.1 TIME DEPENDENT

Times	Unit
range(20*t_cv,t_tot/nb/200,30*t_cv)	s

STUDY SETTINGS

Description	Value
Include geometric nonlinearity	Off

STUDY SETTINGS

Description	Value
Output times	{110.00000000000001, 110.02750000000002, 110.05500000000002, 110.08250000000001, 110.11000000000001, 110.13750000000002, 110.16500000000002, 110.19250000000001, 110.22000000000001, 110.24750000000002, 110.27500000000002, 110.30250000000001, 110.33000000000001, 110.35750000000002, 110.38500000000002, 110.41250000000001, 110.44000000000001, 110.46750000000002, 110.49500000000002, 110.52250000000001, 110.55000000000001, 110.57750000000001, 110.60500000000002, 110.63250000000001, 110.66000000000001, 110.68750000000001, 110.71500000000002, 110.74250000000002, 110.77000000000001, 110.79750000000001, 110.82500000000002, 110.85250000000002, 110.88000000000001, 110.90750000000001, 110.93500000000002, 110.96250000000002, 110.99000000000001, 111.01750000000001, 111.04500000000002, 111.07250000000002, 111.10000000000001, 111.12750000000001, 111.15500000000002, 111.18250000000002, 111.21000000000001, 111.23750000000001, 111.26500000000001, 111.29250000000002, 111.32000000000002, 111.34750000000001, 111.37500000000001, 111.40250000000002, 111.43000000000002, 111.45750000000001, 111.48500000000001, 111.51250000000002, 111.54000000000002, 111.56750000000001, 111.59500000000001, 111.62250000000002, 111.65000000000002, 111.67750000000001, 111.70500000000001, 111.73250000000002, 111.76000000000002, 111.78750000000001, 111.81500000000001, 111.84250000000002, 111.87000000000002, 111.89750000000001, 111.92500000000001, 111.95250000000001, 111.98000000000002, 112.00750000000002, 112.03500000000001, 112.06250000000001, 112.09000000000002, 112.11750000000002, 112.14500000000001, 112.17250000000001, 112.20000000000002, 112.22750000000002, 112.25500000000001, 112.28250000000001, 112.31000000000002, 112.33750000000002, 112.36500000000001, 112.39250000000001, 112.42000000000002, 112.44750000000002, 112.47500000000001, 112.50250000000001, 112.53000000000002,

Description	Value
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Description	Value
	116.51750000000001, 116.54500000000002, 116.57250000000002, 116.60000000000001, 116.62750000000001, 116.65500000000002, 116.68250000000002, 116.71000000000001, 116.73750000000001, 116.76500000000001, 116.79250000000002, 116.82000000000002, 116.84750000000001, 116.87500000000001, 116.90250000000002, 116.93000000000002, 116.95750000000001, 116.98500000000001, 117.01250000000002, 117.04000000000002, 117.06750000000001, 117.09500000000001, 117.12250000000002, 117.15000000000002, 117.17750000000001, 117.20500000000001, 117.23250000000002, 117.26000000000002, 117.28750000000001, 117.31500000000001, 117.34250000000002, 117.37000000000002, 117.39750000000001, 117.42500000000001, 117.45250000000001, 117.48000000000002, 117.50750000000002, 117.53500000000001, 117.56250000000001, 117.59000000000002, 117.61750000000002, 117.64500000000001, 117.67250000000001, 117.70000000000002, 117.72750000000002, 117.75500000000001, 117.78250000000001, 117.81000000000002, 117.83750000000002, 117.86500000000001, 117.89250000000001, 117.92000000000002, 117.94750000000002, 117.97500000000002, 118.00250000000001, 118.03000000000002, 118.05750000000002, 118.08500000000001, 118.11250000000001, 118.14000000000001, 118.16750000000002, 118.19500000000002, 118.22250000000001, 118.25000000000001, 118.27750000000002, 118.30500000000002, 118.33250000000001, 118.36000000000001, 118.38750000000002, 118.41500000000002, 118.44250000000001, 118.47000000000001, 118.49750000000002, 118.52500000000002, 118.55250000000001, 118.58000000000001, 118.60750000000002, 118.63500000000002, 118.66250000000002, 118.69000000000001, 118.71750000000002, 118.74500000000002, 118.77250000000001, 118.80000000000001, 118.82750000000001, 118.85500000000002, 118.88250000000002, 118.91000000000001, 118.93750000000001, 118.96500000000002, 118.99250000000002, 119.02000000000001, 119.04750000000001, 119.07500000000002, 119.10250000000002, 119.13000000000001, 119.15750000000001, 119.18500000000002, 119.21250000000002, 119.24000000000001, 119.26750000000001, 119.29500000000002, 119.32250000000002, 119.35000000000002, 119.37750000000001, 119.40500000000002, 119.43250000000002, 119.46000000000001, 119.48750000000001, 119.51500000000001, 119.54250000000002, 119.57000000000002, 119.59750000000001, 119.62500000000001, 119.65250000000002, 119.68000000000002, 119.70750000000001, 119.73500000000001, 119.76250000000002, 119.79000000000002, 119.81750000000001, 119.84500000000001, 119.87250000000002, 119.90000000000002, 119.92750000000001, 119.95500000000001, 119.98250000000002, 120.01000000000002, 120.03750000000002, 120.06500000000001, 120.09250000000002, 120.12000000000002, 120.14750000000001, 120.17500000000001, 120.20250000000001, 120.23000000000002, 120.25750000000002, 120.28500000000001, 120.31250000000001, 120.34000000000002, 120.36750000000002, 120.39500000000001, 120.42250000000001, 120.45000000000002,

Description	Value
	120.47750000000002, 120.50500000000001, 120.53250000000001, 120.56000000000002, 120.58750000000002, 120.61500000000001, 120.64250000000001, 120.67000000000002, 120.69750000000002, 120.72500000000002, 120.75250000000001, 120.78000000000002, 120.80750000000002, 120.83500000000001, 120.86250000000001, 120.89000000000001, 120.91750000000002, 120.94500000000002, 120.97250000000001, 121.00000000000001, 121.02750000000002, 121.05500000000002, 121.08250000000001, 121.11000000000001, 121.13750000000002, 121.16500000000002, 121.19250000000001, 121.22000000000001, 121.24750000000002, 121.27500000000002, 121.30250000000001, 121.33000000000001, 121.35750000000002, 121.38500000000002, 121.41250000000002, 121.44000000000001, 121.46750000000002, 121.49500000000002, 121.52250000000001, 121.55000000000001, 121.57750000000001, 121.60500000000002, 121.63250000000002, 121.66000000000001, 121.68750000000001, 121.71500000000002, 121.74250000000002, 121.77000000000001, 121.79750000000001, 121.82500000000002, 121.85250000000002, 121.88000000000001, 121.90750000000001, 121.93500000000002, 121.96250000000002, 121.99000000000001, 122.01750000000001, 122.04500000000002, 122.07250000000002, 122.10000000000002, 122.12750000000001, 122.15500000000002, 122.18250000000002, 122.21000000000001, 122.23750000000001, 122.26500000000001, 122.29250000000002, 122.32000000000002, 122.34750000000001, 122.37500000000001, 122.40250000000002, 122.43000000000002, 122.45750000000001, 122.48500000000001, 122.51250000000002, 122.54000000000002, 122.56750000000001, 122.59500000000001, 122.62250000000002, 122.65000000000002, 122.67750000000001, 122.70500000000001, 122.73250000000002, 122.76000000000002, 122.78750000000002, 122.81500000000001, 122.84250000000002, 122.87000000000002, 122.89750000000001, 122.92500000000001, 122.95250000000001, 122.98000000000002, 123.00750000000002, 123.03500000000001, 123.06250000000001, 123.09000000000002, 123.11750000000002, 123.14500000000001, 123.17250000000001, 123.20000000000002, 123.22750000000002, 123.25500000000002, 123.28250000000001, 123.31000000000002, 123.33750000000002, 123.36500000000001, 123.39250000000001, 123.42000000000002, 123.44750000000002, 123.47500000000002, 123.50250000000001, 123.53000000000002, 123.55750000000002, 123.58500000000002, 123.61250000000001, 123.64000000000001, 123.66750000000002, 123.69500000000002, 123.72250000000001, 123.75000000000001, 123.77750000000002, 123.80500000000002, 123.83250000000001, 123.86000000000001, 123.88750000000002, 123.91500000000002, 123.94250000000002, 123.97000000000001, 123.99750000000002, 124.02500000000002, 124.05250000000001, 124.08000000000001, 124.10750000000002, 124.13500000000002, 124.16250000000002, 124.19000000000001, 124.21750000000002, 124.24500000000002, 124.27250000000002, 124.30000000000001, 124.32750000000001, 124.35500000000002, 124.38250000000002, 124.41000000000001,

Description	Value
	124.43750000000001, 124.46500000000002, 124.49250000000002, 124.52000000000001, 124.54750000000001, 124.57500000000002, 124.60250000000002, 124.63000000000002, 124.65750000000001, 124.68500000000002, 124.71250000000002, 124.74000000000001, 124.76750000000001, 124.79500000000002, 124.82250000000002, 124.85000000000002, 124.87750000000001, 124.90500000000002, 124.93250000000002, 124.96000000000002, 124.98750000000001, 125.01500000000001, 125.04250000000002, 125.07000000000002, 125.09750000000001, 125.12500000000001, 125.15250000000002, 125.18000000000002, 125.20750000000001, 125.23500000000001, 125.26250000000002, 125.29000000000002, 125.31750000000002, 125.34500000000001, 125.37250000000002, 125.40000000000002, 125.42750000000001, 125.45500000000001, 125.48250000000002, 125.51000000000002, 125.53750000000002, 125.56500000000001, 125.59250000000002, 125.62000000000002, 125.64750000000002, 125.67500000000001, 125.70250000000001, 125.73000000000002, 125.75750000000002, 125.78500000000001, 125.81250000000001, 125.84000000000002, 125.86750000000002, 125.89500000000001, 125.92250000000001, 125.95000000000002, 125.97750000000002, 126.00500000000002, 126.03250000000001, 126.06000000000002, 126.08750000000002, 126.11500000000001, 126.14250000000001, 126.17000000000002, 126.19750000000002, 126.22500000000002, 126.25250000000001, 126.28000000000002, 126.30750000000002, 126.33500000000001, 126.36250000000001, 126.39000000000001, 126.41750000000002, 126.44500000000002, 126.47250000000003, 126.50000000000001, 126.52750000000002, 126.55500000000002, 126.58250000000001, 126.61000000000001, 126.63750000000002, 126.66500000000002, 126.69250000000002, 126.72000000000001, 126.74750000000002, 126.77500000000002, 126.80250000000001, 126.83000000000001, 126.85750000000002, 126.88500000000002, 126.91250000000002, 126.94000000000001, 126.96750000000002, 126.99500000000002, 127.02250000000001, 127.05000000000001, 127.07750000000001, 127.10500000000002, 127.13250000000002, 127.16000000000003, 127.18750000000001, 127.21500000000002, 127.24250000000002, 127.27000000000001, 127.29750000000001, 127.32500000000002, 127.35250000000002, 127.38000000000002, 127.40750000000001, 127.43500000000002, 127.46250000000002, 127.49000000000001, 127.51750000000001, 127.54500000000002, 127.57250000000002, 127.60000000000002, 127.62750000000001, 127.65500000000002, 127.68250000000002, 127.71000000000001, 127.73750000000001, 127.76500000000001, 127.79250000000002, 127.82000000000002, 127.84750000000003, 127.87500000000001, 127.90250000000002, 127.93000000000002, 127.95750000000001, 127.98500000000001, 128.01250000000002, 128.04000000000002, 128.06750000000002, 128.09500000000003, 128.1225, 128.15, 128.1775, 128.205, 128.23250000000002, 128.26000000000002, 128.28750000000002, 128.31500000000003, 128.34250000000003, 128.37, 128.3975, 128.425, 128.45250000000001, 128.48000000000002, 128.50750000000002,

Description	Value
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Description	Value
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Description	Value
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VALUES OF DEPENDENT VARIABLES

Description	Value
Settings	User controlled
Method	Solution
Study	Study 2 (CV 40 to 44)
Settings	User controlled
Method	Solution
Study	Study 2 (CV 40 to 44)

MESH

Feature	Value
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Feature	Value
Geometry 1	mesh1

PHYSICS AND VARIABLES SELECTION

Physics interface	Discretization
Transport of Diluted Species in droplet (tds)	physics
Moving Mesh (ale)	physics

MESH SELECTION

Geometry	Mesh
Geometry 1 (geom1)	mesh1

5.2 SOLVER CONFIGURATIONS

5.2.1 Solution 6

Compile Equations: Time Dependent (st1)

STUDY AND STEP

Description	Value
Use study	Study 3 (CV 21 to 30)
Use study step	Time Dependent

LOG

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<---- Compile Equations: Time Dependent in Study 3 (CV 21 to 30)/Solution 6
(sol6) -----
Started at May 31, 2023 10:51:37 AM.
Geometry shape function: Linear Lagrange
Running on Intel64 Family 6 Model 158 Stepping 10, GenuineIntel.
Using 1 socket with 6 cores in total on LAPTOP-2492RD8I.
Available memory: 32.27 GB.
Time: 2 s.
Physical memory: 2.42 GB
Virtual memory: 2.5 GB
Ended at May 31, 2023 10:51:38 AM.
----- Compile Equations: Time Dependent in Study 3 (CV 21 to 30)/Solution 6
(sol6) ----->
```

Dependent Variables 1 (v1)

GENERAL

Description	Value
Defined by study step	Time Dependent

INITIAL VALUES OF VARIABLES SOLVED FOR

Description	Value
-------------	-------

Description	Value
Method	Solution
Solution	Remeshed Solution 2

RESIDUAL SCALING

Description	Value
Method	Manual

VALUES OF VARIABLES NOT SOLVED FOR

Description	Value
Method	Solution
Solution	Remeshed Solution 2

INITIAL VALUE CALCULATION CONSTANTS

Constant name	Initial value source
t	range(20*t_cv,t_tot/nb/200,30*t_cv)
timestep	0.055000000000000014[s]

LOG

```
<---- Dependent Variables 1 in Study 3 (CV 21 to 30)/Solution 6 (sol6) -----
Started at May 31, 2023 10:51:38 AM.
Initial values of variables solved for: Remeshed Solution 2 (sol5), t=110 s [Last].
Values of variables not solved for: Remeshed Solution 2 (sol5), t=110 s [Last].
Solution time: 0 s.
Physical memory: 2.42 GB
Virtual memory: 2.5 GB
Ended at May 31, 2023 10:51:39 AM.
----- Dependent Variables 1 in Study 3 (CV 21 to 30)/Solution 6 (sol6) ----->
```

Concentration (comp1.cOx) (comp1_cOx)

GENERAL

Description	Value
Field components	comp1.cOx
Internal variables	{comp1.uflux.cOx, comp1.dflux.cOx}

Concentration (comp1.cRed) (comp1_cRed)

GENERAL

Description	Value
Field components	comp1.cRed
Internal variables	{comp1.uflux.cRed, comp1.dflux.cRed}

comp1.comp1.RgZg (comp1_comp1_RgZg)

GENERAL

Description	Value
Field components	{Rg, Zg}
Solve for this field	Off

Spatial mesh displacement (comp1.spatial.disp) (comp1_spatial_disp)

GENERAL

Description	Value
Field components	{comp1.spatial.u, comp1.spatial.w}

SCALING

Description	Value
Method	Manual
Scale	1.7715973018719574E-7

Time-Dependent Solver 1 (t1)

GENERAL

Description	Value
Defined by study step	Time Dependent
Output times	{110.00000000000001, 110.02750000000002, 110.05500000000002, 110.08250000000001, 110.11000000000001, 110.13750000000002, 110.16500000000002, 110.19250000000001, 110.22000000000001, 110.24750000000002, 110.27500000000002, 110.30250000000001, 110.33000000000001, 110.35750000000002, 110.38500000000002, 110.41250000000001, 110.44000000000001, 110.46750000000002, 110.49500000000002, 110.52250000000001, 110.55000000000001, 110.57750000000001, 110.60500000000002, 110.63250000000001, 110.66000000000001, 110.68750000000001, 110.71500000000002, 110.74250000000002, 110.77000000000001, 110.79750000000001, 110.82500000000002, 110.85250000000002, 110.88000000000001, 110.90750000000001, 110.93500000000002, 110.96250000000002, 110.99000000000001, 111.01750000000001, 111.04500000000002, 111.07250000000002, 111.10000000000001, 111.12750000000001, 111.15500000000002, 111.18250000000002, 111.21000000000001, 111.23750000000001, 111.26500000000001, 111.29250000000002, 111.32000000000002, 111.34750000000001, 111.37500000000001, 111.40250000000002, 111.43000000000002, 111.45750000000001, 111.48500000000001, 111.51250000000002, 111.54000000000002, 111.56750000000001, 111.59500000000001, 111.62250000000002, 111.65000000000002, 111.67750000000001, 111.70500000000001, 111.73250000000002, 111.76000000000002, 111.78750000000001, 111.81500000000001, 111.84250000000002, 111.87000000000002, 111.89750000000001, 111.92500000000001, 111.95250000000001, 111.98000000000002, 112.00750000000002, 112.03500000000001, 112.06250000000001, 112.09000000000002, 112.11750000000002,

Description	Value
	112.14500000000001, 112.17250000000001, 112.20000000000002, 112.22750000000002, 112.25500000000001, 112.28250000000001, 112.31000000000002, 112.33750000000002, 112.36500000000001, 112.39250000000001, 112.42000000000002, 112.44750000000002, 112.47500000000001, 112.50250000000001, 112.53000000000002, 112.55750000000002, 112.58500000000001, 112.61250000000001, 112.64000000000001, 112.66750000000002, 112.69500000000002, 112.72250000000001, 112.75000000000001, 112.77750000000002, 112.80500000000002, 112.83250000000001, 112.86000000000001, 112.88750000000002, 112.91500000000002, 112.94250000000001, 112.97000000000001, 112.99750000000002, 113.02500000000002, 113.05250000000001, 113.08000000000001, 113.10750000000002, 113.13500000000002, 113.16250000000001, 113.19000000000001, 113.21750000000002, 113.24500000000002, 113.27250000000001, 113.30000000000001, 113.32750000000001, 113.35500000000002, 113.38250000000002, 113.41000000000001, 113.43750000000001, 113.46500000000002, 113.49250000000002, 113.52000000000001, 113.54750000000001, 113.57500000000002, 113.60250000000002, 113.63000000000001, 113.65750000000001, 113.68500000000002, 113.71250000000002, 113.74000000000001, 113.76750000000001, 113.79500000000002, 113.82250000000002, 113.85000000000001, 113.87750000000001, 113.90500000000002, 113.93250000000002, 113.96000000000001, 113.98750000000001, 114.01500000000001, 114.04250000000002, 114.07000000000002, 114.09750000000001, 114.12500000000001, 114.15250000000002, 114.18000000000002, 114.20750000000001, 114.23500000000001, 114.26250000000002, 114.29000000000002, 114.31750000000001, 114.34500000000001, 114.37250000000002, 114.40000000000002, 114.42750000000001, 114.45500000000001, 114.48250000000002, 114.51000000000002, 114.53750000000001, 114.56500000000001, 114.59250000000002, 114.62000000000002, 114.64750000000001, 114.67500000000001, 114.70250000000001, 114.73000000000002, 114.75750000000002, 114.78500000000001, 114.81250000000001, 114.84000000000002, 114.86750000000002, 114.89500000000001, 114.92250000000001, 114.95000000000002, 114.97750000000002, 115.00500000000001, 115.03250000000001, 115.06000000000002, 115.08750000000002, 115.11500000000001, 115.14250000000001, 115.17000000000002, 115.19750000000002, 115.22500000000001, 115.25250000000001, 115.28000000000002, 115.30750000000002, 115.33500000000001, 115.36250000000001, 115.39000000000001, 115.41750000000002, 115.44500000000002, 115.47250000000001, 115.50000000000001, 115.52750000000002, 115.55500000000002, 115.58250000000001, 115.61000000000001, 115.63750000000002, 115.66500000000002, 115.69250000000001, 115.72000000000001, 115.74750000000002, 115.77500000000002, 115.80250000000001, 115.83000000000001, 115.85750000000002, 115.88500000000002, 115.91250000000001, 115.94000000000001, 115.96750000000002, 115.99500000000002, 116.02250000000001, 116.05000000000001, 116.07750000000001,

Description	Value
	116.10500000000002, 116.13250000000002, 116.16000000000001, 116.18750000000001, 116.21500000000002, 116.24250000000002, 116.27000000000001, 116.29750000000001, 116.32500000000002, 116.35250000000002, 116.38000000000001, 116.40750000000001, 116.43500000000002, 116.46250000000002, 116.49000000000001, 116.51750000000001, 116.54500000000002, 116.57250000000002, 116.60000000000001, 116.62750000000001, 116.65500000000002, 116.68250000000002, 116.71000000000001, 116.73750000000001, 116.76500000000001, 116.79250000000002, 116.82000000000002, 116.84750000000001, 116.87500000000001, 116.90250000000002, 116.93000000000002, 116.95750000000001, 116.98500000000001, 117.01250000000002, 117.04000000000002, 117.06750000000001, 117.09500000000001, 117.12250000000002, 117.15000000000002, 117.17750000000001, 117.20500000000001, 117.23250000000002, 117.26000000000002, 117.28750000000001, 117.31500000000001, 117.34250000000002, 117.37000000000002, 117.39750000000001, 117.42500000000001, 117.45250000000001, 117.48000000000002, 117.50750000000002, 117.53500000000001, 117.56250000000001, 117.59000000000002, 117.61750000000002, 117.64500000000001, 117.67250000000001, 117.70000000000002, 117.72750000000002, 117.75500000000001, 117.78250000000001, 117.81000000000002, 117.83750000000002, 117.86500000000001, 117.89250000000001, 117.92000000000002, 117.94750000000002, 117.97500000000002, 118.00250000000001, 118.03000000000002, 118.05750000000002, 118.08500000000001, 118.11250000000001, 118.14000000000001, 118.16750000000002, 118.19500000000002, 118.22250000000001, 118.25000000000001, 118.27750000000002, 118.30500000000002, 118.33250000000001, 118.36000000000001, 118.38750000000002, 118.41500000000002, 118.44250000000001, 118.47000000000001, 118.49750000000002, 118.52500000000002, 118.55250000000001, 118.58000000000001, 118.60750000000002, 118.63500000000002, 118.66250000000002, 118.69000000000001, 118.71750000000002, 118.74500000000002, 118.77250000000001, 118.80000000000001, 118.82750000000001, 118.85500000000002, 118.88250000000002, 118.91000000000001, 118.93750000000001, 118.96500000000002, 118.99250000000002, 119.02000000000001, 119.04750000000001, 119.07500000000002, 119.10250000000002, 119.13000000000001, 119.15750000000001, 119.18500000000002, 119.21250000000002, 119.24000000000001, 119.26750000000001, 119.29500000000002, 119.32250000000002, 119.35000000000002, 119.37750000000001, 119.40500000000002, 119.43250000000002, 119.46000000000001, 119.48750000000001, 119.51500000000001, 119.54250000000002, 119.57000000000002, 119.59750000000001, 119.62500000000001, 119.65250000000002, 119.68000000000002, 119.70750000000001, 119.73500000000001, 119.76250000000002, 119.79000000000002, 119.81750000000001, 119.84500000000001, 119.87250000000002, 119.90000000000002, 119.92750000000001, 119.95500000000001, 119.98250000000002, 120.01000000000002, 120.03750000000002,

Description	Value
	120.06500000000001, 120.09250000000002, 120.12000000000002, 120.14750000000001, 120.17500000000001, 120.20250000000001, 120.23000000000002, 120.25750000000002, 120.28500000000001, 120.31250000000001, 120.34000000000002, 120.36750000000002, 120.39500000000001, 120.42250000000001, 120.45000000000002, 120.47750000000002, 120.50500000000001, 120.53250000000001, 120.56000000000002, 120.58750000000002, 120.61500000000001, 120.64250000000001, 120.67000000000002, 120.69750000000002, 120.72500000000002, 120.75250000000001, 120.78000000000002, 120.80750000000002, 120.83500000000001, 120.86250000000001, 120.89000000000001, 120.91750000000002, 120.94500000000002, 120.97250000000001, 121.00000000000001, 121.02750000000002, 121.05500000000002, 121.08250000000001, 121.11000000000001, 121.13750000000002, 121.16500000000002, 121.19250000000001, 121.22000000000001, 121.24750000000002, 121.27500000000002, 121.30250000000001, 121.33000000000001, 121.35750000000002, 121.38500000000002, 121.41250000000002, 121.44000000000001, 121.46750000000002, 121.49500000000002, 121.52250000000001, 121.55000000000001, 121.57750000000001, 121.60500000000002, 121.63250000000002, 121.66000000000001, 121.68750000000001, 121.71500000000002, 121.74250000000002, 121.77000000000001, 121.79750000000001, 121.82500000000002, 121.85250000000002, 121.88000000000001, 121.90750000000001, 121.93500000000002, 121.96250000000002, 121.99000000000001, 122.01750000000001, 122.04500000000002, 122.07250000000002, 122.10000000000002, 122.12750000000001, 122.15500000000002, 122.18250000000002, 122.21000000000001, 122.23750000000001, 122.26500000000001, 122.29250000000002, 122.32000000000002, 122.34750000000001, 122.37500000000001, 122.40250000000002, 122.43000000000002, 122.45750000000001, 122.48500000000001, 122.51250000000002, 122.54000000000002, 122.56750000000001, 122.59500000000001, 122.62250000000002, 122.65000000000002, 122.67750000000001, 122.70500000000001, 122.73250000000002, 122.76000000000002, 122.78750000000002, 122.81500000000001, 122.84250000000002, 122.87000000000002, 122.89750000000001, 122.92500000000001, 122.95250000000001, 122.98000000000002, 123.00750000000002, 123.03500000000001, 123.06250000000001, 123.09000000000002, 123.11750000000002, 123.14500000000001, 123.17250000000001, 123.20000000000002, 123.22750000000002, 123.25500000000002, 123.28250000000001, 123.31000000000002, 123.33750000000002, 123.36500000000001, 123.39250000000001, 123.42000000000002, 123.44750000000002, 123.47500000000002, 123.50250000000001, 123.53000000000002, 123.55750000000002, 123.58500000000002, 123.61250000000001, 123.64000000000001, 123.66750000000002, 123.69500000000002, 123.72250000000001, 123.75000000000001, 123.77750000000002, 123.80500000000002, 123.83250000000001, 123.86000000000001, 123.88750000000002, 123.91500000000002, 123.94250000000002, 123.97000000000001, 123.99750000000002,

Description	Value
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Description	Value
	127.98500000000001, 128.01250000000002, 128.04000000000002, 128.06750000000002, 128.09500000000003, 128.1225, 128.15, 128.1775, 128.205, 128.23250000000002, 128.26000000000002, 128.28750000000002, 128.31500000000003, 128.34250000000003, 128.37, 128.3975, 128.425, 128.45250000000001, 128.48000000000002, 128.50750000000002, 128.53500000000003, 128.56250000000003, 128.59000000000003, 128.6175, 128.645, 128.6725, 128.70000000000002, 128.72750000000002, 128.75500000000002, 128.78250000000003, 128.81, 128.8375, 128.865, 128.8925, 128.92000000000002, 128.94750000000002, 128.97500000000002, 129.00250000000003, 129.03000000000003, 129.0575, 129.085, 129.1125, 129.14000000000001, 129.16750000000002, 129.19500000000002, 129.22250000000003, 129.25000000000003, 129.27750000000003, 129.305, 129.3325, 129.36, 129.38750000000002, 129.41500000000002, 129.44250000000002, 129.47000000000003, 129.4975, 129.525, 129.5525, 129.58, 129.60750000000002, 129.63500000000002, 129.66250000000002, 129.69000000000003, 129.71750000000003, 129.745, 129.7725, 129.8, 129.82750000000001, 129.85500000000002, 129.88250000000002, 129.91000000000003, 129.93750000000003, 129.96500000000003, 129.9925, 130.02, 130.0475, 130.07500000000002, 130.10250000000002, 130.13000000000002, 130.15750000000003, 130.185, 130.2125, 130.24, 130.2675, 130.29500000000002, 130.32250000000002, 130.35000000000002, 130.37750000000003, 130.40500000000003, 130.4325, 130.46, 130.4875, 130.51500000000001, 130.54250000000002, 130.57000000000002, 130.59750000000003, 130.62500000000003, 130.65250000000003, 130.68, 130.7075, 130.735, 130.76250000000002, 130.79000000000002, 130.81750000000002, 130.84500000000003, 130.8725, 130.9, 130.9275, 130.955, 130.98250000000002, 131.01000000000002, 131.03750000000002, 131.06500000000003, 131.09250000000003, 131.12, 131.1475, 131.175, 131.20250000000001, 131.23000000000002, 131.25750000000002, 131.28500000000003, 131.31250000000003, 131.34000000000003, 131.3675, 131.395, 131.4225, 131.45000000000002, 131.47750000000002, 131.50500000000002, 131.53250000000003, 131.56, 131.5875, 131.615, 131.6425, 131.67000000000002, 131.69750000000002, 131.72500000000002, 131.75250000000003, 131.78000000000003, 131.8075, 131.835, 131.8625, 131.89000000000001, 131.91750000000002, 131.94500000000002, 131.97250000000003, 132.00000000000003, 132.02750000000003, 132.055, 132.0825, 132.11, 132.13750000000002, 132.16500000000002, 132.19250000000002, 132.22000000000003, 132.2475, 132.275, 132.3025, 132.33, 132.35750000000002, 132.38500000000002, 132.41250000000002, 132.44000000000003, 132.46750000000003, 132.495, 132.5225, 132.55, 132.57750000000001, 132.60500000000002, 132.63250000000002, 132.66000000000003, 132.68750000000003, 132.71500000000003, 132.7425, 132.77, 132.7975, 132.82500000000002, 132.85250000000002, 132.88000000000002, 132.90750000000003, 132.935, 132.9625, 132.99, 133.0175, 133.04500000000002, 133.07250000000002, 133.10000000000002, 133.12750000000003, 133.15500000000003, 133.1825, 133.21, 133.2375,

Description	Value
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Description	Value
	138.54500000000002, 138.57250000000002, 138.60000000000002, 138.62750000000003, 138.65500000000003, 138.6825, 138.71, 138.7375, 138.76500000000001, 138.79250000000002, 138.82000000000002, 138.84750000000003, 138.87500000000003, 138.90250000000003, 138.93, 138.9575, 138.985, 139.01250000000002, 139.04000000000002, 139.06750000000002, 139.09500000000003, 139.1225, 139.15, 139.1775, 139.205, 139.23250000000002, 139.26000000000002, 139.28750000000002, 139.31500000000003, 139.34250000000003, 139.37, 139.3975, 139.425, 139.45250000000001, 139.48000000000002, 139.50750000000002, 139.53500000000003, 139.56250000000003, 139.59000000000003, 139.6175, 139.645, 139.6725, 139.70000000000002, 139.72750000000002, 139.75500000000002, 139.78250000000003, 139.81, 139.83750000000003, 139.865, 139.8925, 139.92000000000002, 139.94750000000002, 139.97500000000002, 140.00250000000003, 140.03000000000003, 140.0575, 140.085, 140.1125, 140.14000000000001, 140.16750000000002, 140.19500000000002, 140.22250000000003, 140.25000000000003, 140.27750000000003, 140.305, 140.3325, 140.36, 140.38750000000002, 140.41500000000002, 140.44250000000002, 140.47000000000003, 140.4975, 140.52500000000003, 140.5525, 140.58, 140.60750000000002, 140.63500000000002, 140.66250000000002, 140.69000000000003, 140.71750000000003, 140.745, 140.7725, 140.8, 140.82750000000001, 140.85500000000002, 140.88250000000002, 140.91000000000003, 140.93750000000003, 140.96500000000003, 140.9925, 141.02, 141.0475, 141.07500000000002, 141.10250000000002, 141.13000000000002, 141.15750000000003, 141.18500000000003, 141.21250000000003, 141.24, 141.2675, 141.29500000000002, 141.32250000000002, 141.35000000000002, 141.37750000000003, 141.40500000000003, 141.4325, 141.46, 141.4875, 141.51500000000001, 141.54250000000002, 141.57000000000002, 141.59750000000003, 141.62500000000003, 141.65250000000003, 141.68, 141.7075, 141.735, 141.76250000000002, 141.79000000000002, 141.81750000000002, 141.84500000000003, 141.87250000000003, 141.90000000000003, 141.9275, 141.955, 141.98250000000002, 142.01000000000002, 142.03750000000002, 142.06500000000003, 142.09250000000003, 142.12, 142.1475, 142.175, 142.20250000000001, 142.23000000000002, 142.25750000000002, 142.28500000000003, 142.31250000000003, 142.34000000000003, 142.3675, 142.395, 142.4225, 142.45000000000002, 142.47750000000002, 142.50500000000002, 142.53250000000003, 142.56, 142.58750000000003, 142.615, 142.6425, 142.67000000000002, 142.69750000000002, 142.72500000000002, 142.75250000000003, 142.78000000000003, 142.8075, 142.835, 142.8625, 142.89000000000001, 142.91750000000002, 142.94500000000002, 142.97250000000003, 143.00000000000003, 143.02750000000003, 143.055, 143.0825, 143.11, 143.13750000000002, 143.16500000000002, 143.19250000000002, 143.22000000000003, 143.2475, 143.27500000000003, 143.3025, 143.33, 143.35750000000002, 143.38500000000002, 143.41250000000002, 143.44000000000003, 143.46750000000003, 143.495, 143.5225, 143.55, 143.57750000000001, 143.60500000000002, 143.63250000000002,

Description	Value
	143.6600000000003, 143.6875000000003, 143.7150000000003, 143.7425, 143.77, 143.7975, 143.8250000000002, 143.8525000000002, 143.8800000000002, 143.9075000000003, 143.935, 143.9625000000003, 143.99, 144.0175, 144.0450000000002, 144.0725000000002, 144.1000000000002, 144.1275000000003, 144.1550000000003, 144.1825, 144.2100000000004, 144.2375, 144.2650000000001, 144.2925000000002, 144.3200000000002, 144.3475000000003, 144.3750000000003, 144.4025000000003, 144.43, 144.4575, 144.485, 144.5125000000002, 144.5400000000002, 144.5675000000002, 144.5950000000003, 144.6225, 144.6500000000003, 144.6775, 144.705, 144.7325000000002, 144.7600000000002, 144.7875000000002, 144.8150000000003, 144.8425000000003, 144.87, 144.8975000000004, 144.925, 144.9525000000001, 144.9800000000002, 145.0075000000002, 145.0350000000003, 145.0625000000003, 145.0900000000003, 145.1175, 145.145, 145.1725, 145.2000000000002, 145.2275000000002, 145.2550000000002, 145.2825000000003, 145.31, 145.3375000000003, 145.365, 145.3925, 145.4200000000002, 145.4475000000002, 145.4750000000002, 145.5025000000003, 145.5300000000003, 145.5575, 145.5850000000004, 145.6125, 145.6400000000001, 145.6675000000002, 145.6950000000002, 145.7225000000003, 145.7500000000003, 145.7775000000003, 145.805, 145.8325, 145.86, 145.8875000000002, 145.9150000000002, 145.9425000000002, 145.9700000000003, 145.9975, 146.0250000000003, 146.0525, 146.08, 146.1075000000002, 146.1350000000002, 146.1625000000002, 146.1900000000003, 146.2175000000003, 146.245, 146.2725000000004, 146.3, 146.3275000000001, 146.3550000000002, 146.3825000000002, 146.4100000000003, 146.4375000000003, 146.4650000000003, 146.4925, 146.52, 146.5475, 146.5750000000002, 146.6025000000002, 146.6300000000002, 146.6575000000003, 146.685, 146.7125000000003, 146.74, 146.7675, 146.7950000000002, 146.8225000000002, 146.8500000000002, 146.8775000000003, 146.9050000000003, 146.9325, 146.9600000000004, 146.9875, 147.0150000000001, 147.0425000000002, 147.0700000000002, 147.0975000000003, 147.1250000000003, 147.1525000000003, 147.18, 147.2075, 147.235, 147.2625000000002, 147.2900000000002, 147.3175000000002, 147.3450000000003, 147.3725, 147.4000000000003, 147.4275, 147.455, 147.4825000000002, 147.5100000000002, 147.5375000000002, 147.5650000000003, 147.5925000000003, 147.62, 147.6475000000004, 147.675, 147.7025000000001, 147.7300000000002, 147.7575000000002, 147.7850000000003, 147.8125000000003, 147.8400000000003, 147.8675, 147.895, 147.9225, 147.9500000000002, 147.9775000000002, 148.0050000000002, 148.0325000000003, 148.06, 148.0875000000003, 148.115, 148.1425, 148.1700000000002, 148.1975000000002, 148.2250000000002, 148.2525000000003, 148.2800000000003, 148.3075, 148.3350000000004, 148.3625, 148.3900000000001, 148.4175000000002, 148.4450000000002, 148.4725000000003,

Description	Value
	148.50000000000003, 148.52750000000003, 148.555, 148.5825, 148.61, 148.63750000000002, 148.66500000000002, 148.69250000000002, 148.72000000000003, 148.7475, 148.77500000000003, 148.8025, 148.83, 148.85750000000002, 148.88500000000002, 148.91250000000002, 148.94000000000003, 148.96750000000003, 148.995, 149.02250000000004, 149.05, 149.07750000000001, 149.10500000000002, 149.13250000000002, 149.16000000000003, 149.18750000000003, 149.21500000000003, 149.2425, 149.27, 149.2975, 149.32500000000002, 149.35250000000002, 149.38000000000002, 149.40750000000003, 149.435, 149.46250000000003, 149.49, 149.5175, 149.54500000000002, 149.57250000000002, 149.60000000000002, 149.62750000000003, 149.65500000000003, 149.6825, 149.71000000000004, 149.7375, 149.76500000000001, 149.79250000000002, 149.82000000000002, 149.84750000000003, 149.87500000000003, 149.90250000000003, 149.93, 149.9575, 149.985, 150.01250000000002, 150.04000000000002, 150.06750000000002, 150.09500000000003, 150.1225, 150.15000000000003, 150.1775, 150.205, 150.23250000000002, 150.26000000000002, 150.28750000000002, 150.31500000000003, 150.34250000000003, 150.37, 150.39750000000004, 150.425, 150.45250000000001, 150.48000000000002, 150.50750000000002, 150.53500000000003, 150.56250000000003, 150.59000000000003, 150.6175, 150.645, 150.6725, 150.70000000000002, 150.72750000000002, 150.75500000000002, 150.78250000000003, 150.81, 150.83750000000003, 150.865, 150.8925, 150.92000000000002, 150.94750000000002, 150.97500000000002, 151.00250000000003, 151.03000000000003, 151.0575, 151.08500000000004, 151.1125, 151.14000000000001, 151.16750000000002, 151.19500000000002, 151.22250000000003, 151.25000000000003, 151.27750000000003, 151.305, 151.3325, 151.36, 151.38750000000002, 151.41500000000002, 151.44250000000002, 151.47000000000003, 151.4975, 151.52500000000003, 151.5525, 151.58, 151.60750000000002, 151.63500000000002, 151.66250000000002, 151.69000000000003, 151.71750000000003, 151.745, 151.77250000000004, 151.8, 151.82750000000001, 151.85500000000002, 151.88250000000002, 151.91000000000003, 151.93750000000003, 151.96500000000003, 151.9925, 152.02, 152.0475, 152.07500000000002, 152.10250000000002, 152.13000000000002, 152.15750000000003, 152.185, 152.21250000000003, 152.24, 152.2675, 152.29500000000002, 152.32250000000002, 152.35000000000002, 152.37750000000003, 152.40500000000003, 152.4325, 152.46000000000004, 152.4875, 152.51500000000001, 152.54250000000002, 152.57000000000002, 152.59750000000003, 152.62500000000003, 152.65250000000003, 152.68, 152.7075, 152.735, 152.76250000000002, 152.79000000000002, 152.81750000000002, 152.84500000000003, 152.8725, 152.90000000000003, 152.9275, 152.955, 152.98250000000002, 153.01000000000002, 153.03750000000002, 153.06500000000003, 153.09250000000003, 153.12, 153.14750000000004, 153.175, 153.20250000000001, 153.23000000000002, 153.25750000000002, 153.28500000000003, 153.31250000000003, 153.34000000000003,

Description	Value
	153.3675, 153.395, 153.4225, 153.45000000000002, 153.47750000000002, 153.50500000000002, 153.53250000000003, 153.56, 153.58750000000003, 153.615, 153.6425, 153.67000000000002, 153.69750000000002, 153.72500000000002, 153.75250000000003, 153.78000000000003, 153.8075, 153.83500000000004, 153.8625, 153.89000000000001, 153.91750000000002, 153.94500000000002, 153.97250000000003, 154.00000000000003, 154.02750000000003, 154.055, 154.0825, 154.11, 154.13750000000002, 154.16500000000002, 154.19250000000002, 154.22000000000003, 154.2475, 154.27500000000003, 154.3025, 154.33, 154.35750000000002, 154.38500000000002, 154.41250000000002, 154.44000000000003, 154.46750000000003, 154.495, 154.52250000000004, 154.55, 154.57750000000001, 154.60500000000002, 154.63250000000002, 154.66000000000003, 154.68750000000003, 154.71500000000003, 154.7425, 154.77, 154.7975, 154.82500000000002, 154.85250000000002, 154.88000000000002, 154.90750000000003, 154.93500000000003, 154.96250000000003, 154.99, 155.0175, 155.04500000000002, 155.07250000000002, 155.10000000000002, 155.12750000000003, 155.15500000000003, 155.1825, 155.21000000000004, 155.2375, 155.26500000000001, 155.29250000000002, 155.32000000000002, 155.34750000000003, 155.37500000000003, 155.40250000000003, 155.43, 155.4575, 155.485, 155.51250000000002, 155.54000000000002, 155.56750000000002, 155.59500000000003, 155.62250000000003, 155.65000000000003, 155.6775, 155.705, 155.73250000000002, 155.76000000000002, 155.78750000000002, 155.81500000000003, 155.84250000000003, 155.87, 155.89750000000004, 155.925, 155.95250000000001, 155.98000000000002, 156.00750000000002, 156.03500000000003, 156.06250000000003, 156.09000000000003, 156.1175, 156.145, 156.1725, 156.20000000000002, 156.22750000000002, 156.25500000000002, 156.28250000000003, 156.31000000000003, 156.33750000000003, 156.365, 156.3925, 156.42000000000002, 156.44750000000002, 156.47500000000002, 156.50250000000003, 156.53000000000003, 156.5575, 156.58500000000004, 156.6125, 156.64000000000001, 156.66750000000002, 156.69500000000002, 156.72250000000003, 156.75000000000003, 156.77750000000003, 156.805, 156.8325, 156.86, 156.88750000000002, 156.91500000000002, 156.94250000000002, 156.97000000000003, 156.99750000000003, 157.02500000000003, 157.0525, 157.08, 157.10750000000002, 157.13500000000002, 157.16250000000002, 157.19000000000003, 157.21750000000003, 157.245, 157.27250000000004, 157.3, 157.32750000000001, 157.35500000000002, 157.38250000000002, 157.41000000000003, 157.43750000000003, 157.46500000000003, 157.4925, 157.52, 157.5475, 157.57500000000002, 157.60250000000002, 157.63000000000002, 157.65750000000003, 157.68500000000003, 157.71250000000003, 157.74, 157.7675, 157.79500000000002, 157.82250000000002, 157.85000000000002, 157.87750000000003, 157.90500000000003, 157.9325, 157.96000000000004, 157.9875, 158.01500000000001, 158.04250000000002, 158.07000000000002, 158.09750000000003,

Description	Value
	158.1250000000003, 158.1525000000003, 158.18, 158.2075, 158.235, 158.2625000000002, 158.2900000000002, 158.3175000000002, 158.3450000000003, 158.3725000000003, 158.4000000000003, 158.4275, 158.455, 158.4825000000002, 158.5100000000002, 158.5375000000002, 158.5650000000003, 158.5925000000003, 158.62, 158.6475000000004, 158.675, 158.7025000000001, 158.7300000000002, 158.7575000000002, 158.7850000000003, 158.8125000000003, 158.8400000000003, 158.8675, 158.895, 158.9225, 158.9500000000002, 158.9775000000002, 159.0050000000002, 159.0325000000003, 159.0600000000003, 159.0875000000003, 159.115, 159.1425, 159.1700000000002, 159.1975000000002, 159.2250000000002, 159.2525000000003, 159.2800000000003, 159.3075, 159.3350000000004, 159.3625, 159.3900000000001, 159.4175000000002, 159.4450000000002, 159.4725000000003, 159.5000000000003, 159.5275000000003, 159.555, 159.5825, 159.61, 159.6375000000002, 159.6650000000002, 159.6925000000002, 159.7200000000003, 159.7475000000003, 159.7750000000003, 159.8025, 159.83, 159.8575000000002, 159.8850000000002, 159.9125000000002, 159.9400000000003, 159.9675000000003, 159.995, 160.0225000000004, 160.05, 160.0775000000001, 160.1050000000002, 160.1325000000002, 160.1600000000003, 160.1875000000003, 160.2150000000003, 160.2425, 160.27, 160.2975, 160.3250000000002, 160.3525000000002, 160.3800000000002, 160.4075000000003, 160.4350000000003, 160.4625000000003, 160.49, 160.5175, 160.5450000000002, 160.5725000000002, 160.6000000000002, 160.6275000000003, 160.6550000000003, 160.6825, 160.7100000000004, 160.7375, 160.7650000000001, 160.7925000000002, 160.8200000000002, 160.8475000000003, 160.8750000000003, 160.9025000000003, 160.93, 160.9575000000004, 160.985, 161.0125000000002, 161.0400000000002, 161.0675000000002, 161.0950000000003, 161.1225000000003, 161.1500000000003, 161.1775, 161.205, 161.2325000000002, 161.2600000000002, 161.2875000000002, 161.3150000000003, 161.3425000000003, 161.37, 161.3975000000004, 161.425, 161.4525000000001, 161.4800000000002, 161.5075000000002, 161.5350000000003, 161.5625000000003, 161.5900000000003, 161.6175, 161.6450000000004, 161.6725, 161.7000000000002, 161.7275000000002, 161.7550000000002, 161.7825000000003, 161.8100000000003, 161.8375000000003, 161.865, 161.8925, 161.9200000000002, 161.9475000000002, 161.9750000000002, 162.0025000000003, 162.0300000000003, 162.0575, 162.0850000000004, 162.1125, 162.1400000000001, 162.1675000000002, 162.1950000000002, 162.2225000000003, 162.2500000000003, 162.2775000000003, 162.305, 162.3325000000004, 162.36, 162.3875000000002, 162.4150000000002, 162.4425000000002, 162.4700000000003, 162.4975000000003, 162.5250000000003, 162.5525, 162.58, 162.6075000000002, 162.6350000000002, 162.6625000000002, 162.6900000000003,

Description	Value
	162.71750000000003, 162.745, 162.77250000000004, 162.8, 162.82750000000001, 162.85500000000002, 162.88250000000002, 162.91000000000003, 162.93750000000003, 162.96500000000003, 162.9925, 163.02000000000004, 163.0475, 163.07500000000002, 163.10250000000002, 163.13000000000002, 163.15750000000003, 163.18500000000003, 163.21250000000003, 163.24, 163.2675, 163.29500000000002, 163.32250000000002, 163.35000000000002, 163.37750000000003, 163.40500000000003, 163.4325, 163.46000000000004, 163.4875, 163.51500000000001, 163.54250000000002, 163.57000000000002, 163.59750000000003, 163.62500000000003, 163.65250000000003, 163.68, 163.70750000000004, 163.735, 163.76250000000002, 163.79000000000002, 163.81750000000002, 163.84500000000003, 163.87250000000003, 163.90000000000003, 163.9275, 163.955, 163.98250000000002, 164.01000000000002, 164.03750000000002, 164.06500000000003, 164.09250000000003, 164.12, 164.14750000000004, 164.175, 164.20250000000001, 164.23000000000002, 164.25750000000002, 164.28500000000003, 164.31250000000003, 164.34000000000003, 164.3675, 164.39500000000004, 164.4225, 164.45000000000002, 164.47750000000002, 164.50500000000002, 164.53250000000003, 164.56000000000003, 164.58750000000003, 164.615, 164.6425, 164.67000000000002, 164.69750000000002, 164.72500000000002, 164.75250000000003, 164.78000000000003, 164.8075, 164.83500000000004, 164.8625, 164.89000000000001, 164.91750000000002, 164.94500000000002, 164.97250000000003, 165.00000000000003}
Relative tolerance	0.005

TIME STEPPING

Description	Value
Maximum BDF order	2
Nonlinear controller	On

LOG

-	151.22	- out								
-	151.25	- out								
-	151.28	- out								
-	151.31	- out								
-	151.33	- out								
438	151.35	0.27192	336	169	336	2	15	0	8.2e-13	4.1e-15
-	151.36	- out								
-	151.39	- out								
-	151.42	- out								
-	151.44	- out								
-	151.47	- out								
-	151.5	- out								
-	151.53	- out								
-	151.55	- out								
-	151.58	- out								
-	151.61	- out								
439	151.62	0.27192	338	170	338	2	15	0	1.4e-14	1.3e-14
-	151.64	- out								
-	151.66	- out								
-	151.69	- out								
-	151.72	- out								
-	151.75	- out								
-	151.77	- out								
-	151.8	- out								
-	151.83	- out								
-	151.86	- out								
440	151.86	0.23188	342	172	342	2	16	0	1.7e-12	4.9e-15
-	151.88	- out								
-	151.91	- out								
-	151.94	- out								
-	151.97	- out								
-	151.99	- out								
-	152.02	- out								
-	152.05	- out								
-	152.08	- out								
441	152.09	0.23188	344	173	344	2	16	0	1.7e-13	3.9e-15
-	152.1	- out								
-	152.13	- out								
-	152.16	- out								
-	152.19	- out								
442	152.19	0.10221	348	175	348	2	17	0	1.4e-12	6e-15
-	152.21	- out								
-	152.24	- out								
-	152.27	- out								
443	152.29	0.10221	350	176	350	2	17	0	1.2e-13	5.1e-15
-	152.3	- out								
-	152.32	- out								
-	152.35	- out								
-	152.38	- out								
444	152.38	0.087549	352	177	352	2	17	0	3e-13	4.3e-15
-	152.41	- out								
-	152.43	- out								
445	152.45	0.071948	354	178	354	2	17	0	9.1e-14	3.6e-15
-	152.46	- out								
-	152.49	- out								
-	152.52	- out								

446	152.52	0.064753	356	179	356	2	17	0	1.9e-14	3.8e-15
-	152.54	- out								
-	152.57	- out								
447	152.58	0.064753	358	180	358	2	17	0	1.5e-14	4.1e-15
-	152.6	- out								
-	152.63	- out								
448	152.65	0.064753	360	181	360	2	17	0	1e-13	4.5e-15
-	152.65	- out								
-	152.68	- out								
-	152.71	- out								
449	152.71	0.064753	362	182	362	2	17	0	3.7e-14	5.4e-15
-	152.74	- out								
-	152.76	- out								
450	152.78	0.064753	364	183	364	2	17	0	4.8e-14	5.5e-15
-	152.79	- out								
-	152.82	- out								
451	152.84	0.064753	366	184	366	2	17	0	1.7e-14	5e-15
-	152.85	- out								
-	152.87	- out								
-	152.9	- out								
452	152.91	0.064753	368	185	368	2	17	0	1.1e-14	5.2e-15
-	152.93	- out								
-	152.96	- out								
453	152.97	0.064753	370	186	370	2	17	0	5.8e-14	5e-15
-	152.98	- out								
-	153.01	- out								
454	153.03	0.064753	372	187	372	2	17	0	1.1e-13	4.9e-15
-	153.04	- out								
-	153.07	- out								
-	153.09	- out								
455	153.1	0.064753	374	188	374	2	17	0	2.4e-13	6e-15
-	153.12	- out								
-	153.15	- out								
456	153.16	0.064753	376	189	376	2	17	0	1.3e-13	3.8e-15
-	153.18	- out								
-	153.2	- out								
457	153.23	0.064753	378	190	378	2	17	0	2.9e-13	4.3e-15
-	153.23	- out								
-	153.26	- out								
-	153.29	- out								
458	153.29	0.064753	380	191	380	2	17	0	2.5e-13	4.1e-15
-	153.31	- out								
-	153.34	- out								
459	153.36	0.064753	382	192	382	2	17	0	1.1e-12	5.3e-15
-	153.37	- out								
-	153.4	- out								
-	153.42	- out								
460	153.42	0.064753	384	193	384	2	17	0	2.8e-13	2.8e-15
-	153.45	- out								
-	153.48	- out								
461	153.49	0.064753	386	194	386	2	17	0	7.7e-13	5.6e-15
-	153.51	- out								
-	153.53	- out								
462	153.55	0.064753	388	195	388	2	17	0	1e-12	4e-15
-	153.56	- out								
-	153.59	- out								

-	153.62	- out									
-	153.64	- out									
-	153.67	- out									
463	153.68	0.12951	390	196	390	2	17	0	1.6e-12	3.5e-15	
-	153.7	- out									
-	153.73	- out									
-	153.75	- out									
-	153.78	- out									
-	153.81	- out									
464	153.81	0.12951	392	197	392	2	17	0	1e-12	4.1e-15	
-	153.84	- out									
-	153.86	- out									
-	153.89	- out									
-	153.92	- out									
465	153.94	0.12951	394	198	394	2	17	0	1.8e-12	3.3e-15	
-	153.95	- out									
-	153.97	- out									
-	154	- out									
-	154.03	- out									
-	154.06	- out									
466	154.07	0.12951	396	199	396	2	17	0	7.2e-13	5.5e-15	
-	154.08	- out									
-	154.11	- out									
-	154.14	- out									
-	154.17	- out									
-	154.19	- out									
-	154.22	- out									
-	154.25	- out									
-	154.28	- out									
-	154.3	- out									
467	154.33	0.25901	398	200	398	2	17	0	9.1e-14	5e-15	
-	154.33	- out									
-	154.36	- out									
-	154.39	- out									
-	154.41	- out									
-	154.44	- out									
-	154.47	- out									
-	154.5	- out									
-	154.52	- out									
-	154.55	- out									
-	154.58	- out									
468	154.59	0.25901	400	201	400	2	17	0	3.4e-13	3.4e-15	
-	154.61	- out									
-	154.63	- out									
-	154.66	- out									
-	154.69	- out									
469	154.71	0.11674	404	203	404	2	18	0	3.3e-13	3.9e-15	
-	154.72	- out									
-	154.74	- out									
-	154.77	- out									
-	154.8	- out									
470	154.82	0.11674	406	204	406	2	18	0	1.1e-13	3.1e-15	
-	154.83	- out									
-	154.85	- out									
-	154.88	- out									
471	154.89	0.070483	410	206	410	2	19	0	2.5e-14	4.1e-15	

-	154.91	-	out								
-	154.94	-	out								
-	154.96	-	out								
472	154.96	0.070483		412	207	412	2	19	0	1.1e-13	3.6e-15
-	154.99	-	out								
-	155.02	-	out								
473	155.03	0.070483		414	208	414	2	19	0	7.6e-14	5.4e-15
-	155.05	-	out								
-	155.07	-	out								
-	155.1	-	out								
474	155.1	0.070483		416	209	416	2	19	0	3.3e-14	4.7e-15
-	155.13	-	out								
-	155.16	-	out								
475	155.17	0.070483		418	210	418	2	19	0	1.1e-13	4.6e-15
-	155.18	-	out								
-	155.21	-	out								
-	155.24	-	out								
476	155.24	0.070483		420	211	420	2	19	0	4.2e-14	5.6e-15
-	155.27	-	out								
-	155.29	-	out								
477	155.32	0.070483		422	212	422	2	19	0	1.8e-14	4.4e-15
-	155.32	-	out								
-	155.35	-	out								
-	155.38	-	out								
478	155.39	0.070483		424	213	424	2	19	0	7e-14	4.6e-15
-	155.4	-	out								
-	155.43	-	out								
479	155.45	0.063435		426	214	426	2	19	0	1e-13	4.2e-15
-	155.46	-	out								
-	155.49	-	out								
-	155.51	-	out								
480	155.51	0.063435		428	215	428	2	19	0	1.2e-13	4.6e-15
-	155.54	-	out								
-	155.57	-	out								
481	155.58	0.063435		430	216	430	2	19	0	1e-13	4.9e-15
-	155.6	-	out								
-	155.62	-	out								
482	155.64	0.063435		432	217	432	2	19	0	7.6e-14	2.9e-15
-	155.65	-	out								
-	155.68	-	out								
483	155.7	0.063435		434	218	434	2	19	0	3.8e-13	3.9e-15
-	155.71	-	out								
-	155.73	-	out								
-	155.76	-	out								
484	155.77	0.063435		436	219	436	2	19	0	6.1e-13	4e-15
-	155.79	-	out								
-	155.82	-	out								
485	155.83	0.063435		438	220	438	2	19	0	2e-13	5e-15
-	155.84	-	out								
-	155.87	-	out								
486	155.89	0.063435		440	221	440	2	19	0	2.9e-13	5.2e-15
-	155.9	-	out								
-	155.93	-	out								
-	155.95	-	out								
487	155.96	0.063435		442	222	442	2	19	0	5.6e-14	3.7e-15
-	155.98	-	out								

-	156.01	- out									
488	156.02	0.063435	444	223	444	2	19	0	7.4e-13	4e-15	
-	156.04	- out									
-	156.06	- out									
489	156.08	0.063435	446	224	446	2	19	0	3.2e-13	4.1e-15	
-	156.09	- out									
-	156.12	- out									
-	156.15	- out									
490	156.15	0.063435	448	225	448	2	19	0	3.8e-13	7.2e-15	
-	156.17	- out									
-	156.2	- out									
-	156.23	- out									
-	156.26	- out									
491	156.27	0.12687	450	226	450	2	19	0	6.8e-13	7.6e-15	
-	156.28	- out									
-	156.31	- out									
-	156.34	- out									
-	156.37	- out									
-	156.39	- out									
492	156.4	0.12687	452	227	452	2	19	0	6.7e-13	6.4e-15	
-	156.42	- out									
-	156.45	- out									
-	156.48	- out									
-	156.5	- out									
493	156.53	0.12687	454	228	454	2	19	0	5.2e-13	5.2e-15	
-	156.53	- out									
-	156.56	- out									
-	156.59	- out									
-	156.61	- out									
-	156.64	- out									
-	156.67	- out									
-	156.7	- out									
-	156.72	- out									
-	156.75	- out									
-	156.78	- out									
494	156.78	0.25374	456	229	456	2	19	0	1.2e-12	3.9e-15	
-	156.81	- out									
-	156.83	- out									
-	156.86	- out									
-	156.89	- out									
-	156.92	- out									
-	156.94	- out									
-	156.97	- out									
-	157	- out									
-	157.03	- out									
495	157.04	0.25374	458	230	458	2	19	0	1e-13	6.1e-15	
-	157.05	- out									
-	157.08	- out									
-	157.11	- out									
-	157.14	- out									
-	157.16	- out									
-	157.19	- out									
-	157.22	- out									
-	157.25	- out									
-	157.27	- out									
-	157.3	- out									

-	157.33	- out									
496	157.33	0.29504	462	232	462	2	20	0	7e-13	3.8e-15	
-	157.36	- out									
-	157.38	- out									
-	157.41	- out									
-	157.44	- out									
-	157.47	- out									
-	157.49	- out									
497	157.51	0.17678	466	234	466	2	21	0	4.8e-13	4.3e-15	
-	157.52	- out									
-	157.55	- out									
-	157.58	- out									
-	157.6	- out									
498	157.62	0.11719	470	236	470	2	22	0	9.3e-13	5.8e-15	
-	157.63	- out									
-	157.66	- out									
-	157.69	- out									
-	157.71	- out									
-	157.74	- out									
499	157.74	0.11719	472	237	472	2	22	0	3e-13	3.6e-15	
-	157.77	- out									
-	157.8	- out									
500	157.81	0.067981	476	239	476	2	23	0	1e-13	3.5e-15	
-	157.82	- out									
-	157.85	- out									
501	157.88	0.067981	478	240	478	2	23	0	1.8e-13	5.3e-15	
-	157.88	- out									
-	157.91	- out									
-	157.93	- out									
502	157.94	0.061183	480	241	480	2	23	0	1.3e-13	4.4e-15	
-	157.96	- out									
-	157.99	- out									
503	158	0.061183	482	242	482	2	23	0	1.6e-13	5.3e-15	
-	158.02	- out									
-	158.04	- out									
504	158.06	0.061183	484	243	484	2	23	0	3.6e-14	4.2e-15	
-	158.07	- out									
-	158.1	- out									
505	158.12	0.061183	486	244	486	2	23	0	5.2e-14	3.8e-15	
-	158.13	- out									
-	158.15	- out									
-	158.18	- out									
506	158.19	0.066869	490	246	490	2	24	0	4.1e-14	7.2e-15	
-	158.21	- out									
-	158.24	- out									
507	158.26	0.066869	492	247	492	2	24	0	2.7e-14	9.6e-15	
-	158.26	- out									
-	158.29	- out									
-	158.32	- out									
508	158.32	0.066869	494	248	494	2	24	0	7.1e-14	8.2e-15	
-	158.35	- out									
-	158.37	- out									
509	158.38	0.060182	496	249	496	2	24	0	3.7e-14	6.8e-15	
-	158.4	- out									
-	158.43	- out									
510	158.44	0.060182	498	250	498	2	24	0	2.4e-14	4.8e-15	

-	158.46	- out								
-	158.48	- out								
511	158.5	0.060182	500	251	500	2	24	0	1.2e-14	6.2e-15
-	158.51	- out								
-	158.54	- out								
-	158.57	- out								
512	158.58	0.077343	504	253	504	2	25	0	4.1e-14	6.7e-15
-	158.59	- out								
-	158.62	- out								
-	158.65	- out								
513	158.66	0.077343	506	254	506	2	25	0	1e-13	1.1e-14
-	158.68	- out								
-	158.7	- out								
514	158.73	0.069609	508	255	508	2	25	0	3.8e-13	1e-14
-	158.73	- out								
515	158.8	0.069609	510	256	510	2	25	0	4.7e-13	5.3e-15

Number of vertex elements: 3

Number of boundary elements: 112

Number of vertex elements: 3

Number of boundary elements: 112

Number of elements: 534

Minimum element quality: 0.5661

Number of vertex elements: 4

Number of boundary elements: 162

Number of vertex elements: 5

Number of boundary elements: 212

Number of vertex elements: 6

Number of boundary elements: 266

Minimum element quality: 0.1631

Geometry shape function: Linear Lagrange

Time interval 3

Time-dependent solver (BDF)

Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).

Nonsymmetric matrix found.

Scales for dependent variables:

Concentration (compl.cOx): 2.9

Concentration (compl.cRed): 1.9

Spatial mesh displacement (compl.spatial.disp): 1.8e-07

Step	Time	Stepsize	Res	Jac	Sol	Order	Tfail	NLfail	LinErr	LinRes
-	158.73	- out								
-	158.73	- out								
516	158.76	0.0275	2	2	2	1	0	0	9.8e-14	2.7e-15
-	158.76	- out								
517	158.78	0.0275	4	3	4	1	0	0	1.9e-13	3.6e-15
-	158.79	- out								
-	158.81	- out								
518	158.84	0.055	6	4	6	2	0	0	1.9e-13	2.4e-15
-	158.84	- out								
-	158.87	- out								
519	158.89	0.055	8	5	8	2	0	0	6.4e-13	4.1e-15
-	158.9	- out								
-	158.92	- out								
-	158.95	- out								
-	158.98	- out								
520	159	0.11	10	6	10	2	0	0	4.9e-13	4.4e-15
-	159.01	- out								

-	159.03	- out									
-	159.06	- out									
-	159.09	- out									
521	159.11	0.11	12	7	12	2	0	0	9e-13	6.5e-15	
-	159.12	- out									
-	159.14	- out									
-	159.17	- out									
-	159.2	- out									
522	159.22	0.11	14	8	14	2	0	0	1.1e-12	3.9e-15	
-	159.23	- out									
-	159.25	- out									
-	159.28	- out									
-	159.31	- out									
523	159.33	0.11	16	9	16	2	0	0	8.9e-13	4.5e-15	
-	159.34	- out									
-	159.36	- out									
-	159.39	- out									
-	159.42	- out									
-	159.45	- out									
-	159.47	- out									
-	159.5	- out									
-	159.53	- out									
524	159.55	0.22	18	10	18	2	0	0	1.4e-12	3.8e-15	
-	159.56	- out									
-	159.58	- out									
-	159.61	- out									
-	159.64	- out									
-	159.67	- out									
-	159.69	- out									
-	159.72	- out									
-	159.75	- out									
525	159.77	0.22	20	11	20	2	0	0	6.4e-14	5.9e-15	
-	159.78	- out									
-	159.8	- out									
-	159.83	- out									
-	159.86	- out									
-	159.89	- out									
-	159.91	- out									
-	159.94	- out									
-	159.97	- out									
526	159.99	0.21337	24	13	24	2	1	0	3.9e-13	2.7e-15	
-	160	- out									
-	160.02	- out									
-	160.05	- out									
-	160.08	- out									
-	160.11	- out									
-	160.13	- out									
-	160.16	- out									
-	160.19	- out									
527	160.2	0.21337	26	14	26	2	1	0	1e-12	6.3e-15	
-	160.22	- out									
-	160.24	- out									
-	160.27	- out									
528	160.29	0.095507	30	16	30	2	2	0	1.2e-13	4.8e-15	
-	160.3	- out									
-	160.33	- out									

-	160.35	- out								
-	160.38	- out								
529	160.39	0.095507	32	17	32	2	2	0	2.6e-13	4.6e-15
-	160.41	- out								
-	160.44	- out								
-	160.46	- out								
530	160.47	0.083902	34	18	34	2	2	0	1.7e-13	4.5e-15
-	160.49	- out								
-	160.52	- out								
-	160.55	- out								
531	160.55	0.074598	36	19	36	2	2	0	4.7e-14	4.7e-15
-	160.57	- out								
-	160.6	- out								
532	160.62	0.074598	38	20	38	2	2	0	5.6e-14	5e-15
-	160.63	- out								
-	160.66	- out								
-	160.68	- out								
533	160.7	0.074598	40	21	40	2	2	0	1.3e-13	4.8e-15
-	160.71	- out								
-	160.74	- out								
-	160.77	- out								
534	160.77	0.074598	42	22	42	2	2	0	7.1e-14	4.8e-15
-	160.79	- out								
-	160.82	- out								
535	160.85	0.074598	44	23	44	2	2	0	1.7e-13	6.3e-15
-	160.85	- out								
-	160.88	- out								
-	160.9	- out								
536	160.91	0.067138	46	24	46	2	2	0	7.8e-14	5.2e-15
-	160.93	- out								
-	160.96	- out								
537	160.98	0.067138	48	25	48	2	2	0	1.3e-13	5.1e-15
-	160.99	- out								
-	161.01	- out								
-	161.04	- out								
538	161.05	0.067138	50	26	50	2	2	0	6.2e-14	5.6e-15
-	161.07	- out								
-	161.1	- out								
539	161.12	0.067138	52	27	52	2	2	0	2.1e-13	3.7e-15
-	161.12	- out								
-	161.15	- out								
-	161.18	- out								
540	161.18	0.067138	54	28	54	2	2	0	1.5e-13	4.7e-15
-	161.21	- out								
-	161.23	- out								
541	161.25	0.067138	56	29	56	2	2	0	2.6e-13	3.5e-15
-	161.26	- out								
-	161.29	- out								
-	161.32	- out								
542	161.32	0.067138	58	30	58	2	2	0	2.8e-13	3.9e-15
-	161.34	- out								
-	161.37	- out								
543	161.38	0.067138	60	31	60	2	2	0	4.8e-13	5.8e-15
-	161.4	- out								
-	161.43	- out								
544	161.45	0.067138	62	32	62	2	2	0	1.6e-13	2.8e-15

-	161.45	- out								
-	161.48	- out								
-	161.51	- out								
545	161.52	0.067138	64	33	64	2	2	0	4.3e-13	5.4e-15
-	161.54	- out								
-	161.56	- out								
546	161.59	0.067138	66	34	66	2	2	0	2.6e-13	4.8e-15
-	161.59	- out								
-	161.62	- out								
-	161.65	- out								
547	161.65	0.067138	68	35	68	2	2	0	1e-12	5.1e-15
-	161.67	- out								
-	161.7	- out								
-	161.73	- out								
-	161.76	- out								
-	161.78	- out								
548	161.79	0.13428	70	36	70	2	2	0	1.6e-12	5.7e-15
-	161.81	- out								
-	161.84	- out								
-	161.87	- out								
-	161.89	- out								
-	161.92	- out								
549	161.92	0.13428	72	37	72	2	2	0	2.8e-12	9.1e-15
-	161.95	- out								
-	161.98	- out								
-	162	- out								
-	162.03	- out								
550	162.06	0.13428	74	38	74	2	2	0	6.7e-13	5.8e-15
-	162.06	- out								
-	162.09	- out								
-	162.11	- out								
-	162.14	- out								
-	162.17	- out								
551	162.19	0.13428	76	39	76	2	2	0	6.5e-13	4.9e-15
-	162.2	- out								
-	162.22	- out								
-	162.25	- out								
-	162.28	- out								
-	162.31	- out								
-	162.33	- out								
-	162.36	- out								
-	162.39	- out								
-	162.42	- out								
-	162.44	- out								
552	162.46	0.26855	78	40	78	2	2	0	1.2e-13	6.5e-15
-	162.47	- out								
-	162.5	- out								
-	162.53	- out								
-	162.55	- out								
-	162.58	- out								
-	162.61	- out								
-	162.64	- out								
-	162.66	- out								
-	162.69	- out								
-	162.72	- out								
553	162.73	0.26855	80	41	80	2	2	0	3.2e-13	3.2e-15

-	162.75	-	out								
-	162.77	-	out								
-	162.8	-	out								
-	162.83	-	out								
-	162.86	-	out								
-	162.88	-	out								
554	162.89	0.1614		84	43	84	2	3	0	1.7e-12	4.2e-15
-	162.91	-	out								
-	162.94	-	out								
-	162.97	-	out								
-	162.99	-	out								
-	163.02	-	out								
-	163.05	-	out								
555	163.05	0.1614		86	44	86	2	3	0	2.9e-13	3.4e-15
-	163.08	-	out								
-	163.1	-	out								
-	163.13	-	out								
556	163.15	0.095381		90	46	90	2	4	0	2.5e-13	4.3e-15
-	163.16	-	out								
-	163.19	-	out								
-	163.21	-	out								
-	163.24	-	out								
557	163.24	0.095381		92	47	92	2	4	0	1.5e-13	3.2e-15
-	163.27	-	out								
-	163.3	-	out								
-	163.32	-	out								
558	163.33	0.085069		94	48	94	2	4	0	1.9e-14	2.8e-15
-	163.35	-	out								
-	163.38	-	out								
559	163.4	0.071344		96	49	96	2	4	0	1e-13	6.1e-15
-	163.41	-	out								
-	163.43	-	out								
-	163.46	-	out								
560	163.46	0.06421		98	50	98	2	4	0	1e-13	5.5e-15
-	163.49	-	out								
-	163.52	-	out								
561	163.53	0.06421		100	51	100	2	4	0	9.4e-14	4.1e-15
-	163.54	-	out								
-	163.57	-	out								
562	163.59	0.06421		102	52	102	2	4	0	7.5e-15	9.4e-15
-	163.6	-	out								
-	163.63	-	out								
-	163.65	-	out								
563	163.65	0.06421		104	53	104	2	4	0	2.5e-14	3.9e-15
-	163.68	-	out								
-	163.71	-	out								
564	163.72	0.06421		106	54	106	2	4	0	2.9e-14	3.7e-15
-	163.74	-	out								
-	163.76	-	out								
565	163.78	0.06421		108	55	108	2	4	0	1.2e-14	4.8e-15
-	163.79	-	out								
-	163.82	-	out								
-	163.85	-	out								
566	163.85	0.06421		110	56	110	2	4	0	3.9e-14	7.1e-15
-	163.87	-	out								
-	163.9	-	out								

567	163.91	0.06421	112	57	112	2	4	0	8.3e-14	4.2e-15
-	163.93	- out								
-	163.96	- out								
568	163.97	0.06421	114	58	114	2	4	0	1e-14	6.3e-15
-	163.98	- out								
-	164.01	- out								
-	164.04	- out								
569	164.04	0.06421	116	59	116	2	4	0	1.1e-13	4.5e-15
-	164.07	- out								
-	164.09	- out								
570	164.1	0.06421	118	60	118	2	4	0	9.3e-14	4.9e-15
-	164.12	- out								
-	164.15	- out								
571	164.17	0.06421	120	61	120	2	4	0	2.5e-13	3.3e-15
-	164.18	- out								
-	164.2	- out								
-	164.23	- out								
572	164.23	0.06421	122	62	122	2	4	0	2.3e-13	4.8e-15
-	164.26	- out								
-	164.29	- out								
573	164.3	0.06421	124	63	124	2	4	0	5.2e-13	8.9e-15
-	164.31	- out								
-	164.34	- out								
574	164.36	0.06421	126	64	126	2	4	0	2.9e-13	3e-15
-	164.37	- out								
-	164.4	- out								
-	164.42	- out								
575	164.42	0.06421	128	65	128	2	4	0	6.5e-13	5.7e-15
-	164.45	- out								
-	164.48	- out								
576	164.49	0.06421	130	66	130	2	4	0	1.6e-12	3.9e-15
-	164.51	- out								
-	164.53	- out								
577	164.55	0.06421	132	67	132	2	4	0	1.2e-12	5.3e-15
-	164.56	- out								
-	164.59	- out								
-	164.62	- out								
-	164.64	- out								
-	164.67	- out								
578	164.68	0.12842	134	68	134	2	4	0	3.6e-12	4.7e-15
-	164.7	- out								
-	164.73	- out								
-	164.75	- out								
-	164.78	- out								
-	164.81	- out								
579	164.81	0.12842	136	69	136	2	4	0	2e-12	7.4e-15
-	164.84	- out								
-	164.86	- out								
-	164.89	- out								
-	164.92	- out								
580	164.94	0.12842	138	70	138	2	4	0	1.3e-12	4.7e-15
-	164.95	- out								
-	164.97	- out								
-	165	- out								
581	165.19	0.25684	140	71	140	2	4	0	4.2e-13	4.3e-15

Time-stepping completed.

Geometry shape function: Linear Lagrange
 Solution time: 703 s. (11 minutes, 43 seconds)
 Physical memory: 2.78 GB
 Virtual memory: 2.87 GB
 Ended at May 31, 2023 11:03:22 AM.

----- Time-Dependent Solver 1 in Study 3 (CV 21 to 30)/Solution 6 (sol6) ----->

Advanced (aDef)

ASSEMBLY SETTINGS

Description	Value
Reuse sparsity pattern	On

Fully Coupled 1 (fc1)

GENERAL

Description	Value
Linear solver	Direct 1

METHOD AND TERMINATION

Description	Value
Damping factor	0.9
Jacobian update	Once per time step
Maximum number of iterations	8
Stabilization and acceleration	Anderson acceleration
Dimension of iteration space	5

Automatic Remeshing 1 (ar1)

GENERAL

Description	Value
Remesh in geometry	Geometry 1

CONDITION FOR REMESHING

Description	Value
Condition type	Distortion

OUTPUT

Description	Value
Solution	Remeshed Solution 3
Meshes	{mesh4, mesh5}

6 Study 4 (CV 31 to 38)

COMPUTATION INFORMATION

Computation time	10 min 42 s
------------------	-------------

6.1 TIME DEPENDENT

Times	Unit
range(30*t_cv,t_tot/nb/200,38*t_cv)	s

STUDY SETTINGS

Description	Value
Include geometric nonlinearity	Off

STUDY SETTINGS

Description	Value
Output times	{165.00000000000003, 165.02750000000003, 165.05500000000004, 165.08250000000004, 165.11000000000004, 165.13750000000002, 165.16500000000002, 165.19250000000002, 165.22000000000003, 165.24750000000003, 165.27500000000003, 165.30250000000004, 165.33000000000004, 165.35750000000002, 165.38500000000002, 165.41250000000002, 165.44000000000003, 165.46750000000003, 165.49500000000003, 165.52250000000004, 165.55000000000004, 165.57750000000001, 165.60500000000002, 165.63250000000002, 165.66000000000003, 165.68750000000003, 165.71500000000003, 165.74250000000004, 165.77000000000004, 165.79750000000004, 165.82500000000002, 165.85250000000002, 165.88000000000002, 165.90750000000003, 165.93500000000003, 165.96250000000003, 165.99000000000004, 166.01750000000004, 166.04500000000002, 166.07250000000002, 166.10000000000002, 166.12750000000003, 166.15500000000003, 166.18250000000003, 166.21000000000004, 166.23750000000004, 166.26500000000001, 166.29250000000002, 166.32000000000002, 166.34750000000003, 166.37500000000003, 166.40250000000003, 166.43000000000004, 166.45750000000004, 166.48500000000004, 166.51250000000002, 166.54000000000002, 166.56750000000002, 166.59500000000003, 166.62250000000003, 166.65000000000003, 166.67750000000004, 166.70500000000004, 166.73250000000002, 166.76000000000002, 166.78750000000002, 166.81500000000003, 166.84250000000003, 166.87000000000003, 166.89750000000004, 166.92500000000004, 166.95250000000001, 166.98000000000002, 167.00750000000002, 167.03500000000003, 167.06250000000003, 167.09000000000003, 167.11750000000004, 167.14500000000004, 167.17250000000004, 167.20000000000002, 167.22750000000002, 167.25500000000002, 167.28250000000003, 167.31000000000003, 167.33750000000003, 167.36500000000004, 167.39250000000004, 167.42000000000002, 167.44750000000002, 167.47500000000002, 167.50250000000003, 167.53000000000003}

Description	Value
	167.55750000000003, 167.58500000000004, 167.61250000000004, 167.64000000000004, 167.66750000000002, 167.69500000000002, 167.72250000000003, 167.75000000000003, 167.77750000000003, 167.80500000000004, 167.83250000000004, 167.86000000000004, 167.88750000000002, 167.91500000000002, 167.94250000000002, 167.97000000000003, 167.99750000000003, 168.02500000000003, 168.05250000000004, 168.08000000000004, 168.10750000000002, 168.13500000000002, 168.16250000000002, 168.19000000000003, 168.21750000000003, 168.24500000000003, 168.27250000000004, 168.30000000000004, 168.32750000000004, 168.35500000000002, 168.38250000000002, 168.41000000000003, 168.43750000000003, 168.46500000000003, 168.49250000000004, 168.52000000000004, 168.54750000000004, 168.57500000000002, 168.60250000000002, 168.63000000000002, 168.65750000000003, 168.68500000000003, 168.71250000000003, 168.74000000000004, 168.76750000000004, 168.79500000000002, 168.82250000000002, 168.85000000000002, 168.87750000000003, 168.90500000000003, 168.93250000000003, 168.96000000000004, 168.98750000000004, 169.01500000000004, 169.04250000000002, 169.07000000000002, 169.09750000000003, 169.12500000000003, 169.15250000000003, 169.18000000000004, 169.20750000000004, 169.23500000000004, 169.26250000000002, 169.29000000000002, 169.31750000000002, 169.34500000000003, 169.37250000000003, 169.40000000000003, 169.42750000000004, 169.45500000000004, 169.48250000000002, 169.51000000000002, 169.53750000000002, 169.56500000000003, 169.59250000000003, 169.62000000000003, 169.64750000000004, 169.67500000000004, 169.70250000000004, 169.73000000000002, 169.75750000000002, 169.78500000000003, 169.81250000000003, 169.84000000000003, 169.86750000000004, 169.89500000000004, 169.92250000000004, 169.95000000000002, 169.97750000000002, 170.00500000000002, 170.03250000000003, 170.06000000000003, 170.08750000000003, 170.11500000000004, 170.14250000000004, 170.17000000000002, 170.19750000000002, 170.22500000000002, 170.25250000000003, 170.28000000000003, 170.30750000000003, 170.33500000000004, 170.36250000000004, 170.39000000000004, 170.41750000000002, 170.44500000000002, 170.47250000000003, 170.50000000000003, 170.52750000000003, 170.55500000000004, 170.58250000000004, 170.61000000000004, 170.63750000000002, 170.66500000000002, 170.69250000000002, 170.72000000000003, 170.74750000000003, 170.77500000000003, 170.80250000000004, 170.83000000000004, 170.85750000000002, 170.88500000000002, 170.91250000000002, 170.94000000000003, 170.96750000000003, 170.99500000000003, 171.02250000000004, 171.05000000000004, 171.07750000000004, 171.10500000000002, 171.13250000000002, 171.16000000000003, 171.18750000000003, 171.21500000000003, 171.24250000000004, 171.27000000000004, 171.29750000000004, 171.32500000000002, 171.35250000000002, 171.38000000000002, 171.40750000000003, 171.43500000000003, 171.46250000000003, 171.49000000000004,

Description	Value
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Description	Value
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Description	Value
	179.43750000000003, 179.46500000000003, 179.49250000000004,
	179.52000000000004, 179.54750000000004, 179.57500000000002,
	179.60250000000002, 179.63000000000002, 179.65750000000003,
	179.68500000000003, 179.71250000000003, 179.74000000000004,
	179.76750000000004, 179.79500000000002, 179.82250000000002,
	179.85000000000002, 179.87750000000003, 179.90500000000003,
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	180.01500000000004, 180.04250000000002, 180.07000000000002,
	180.09750000000003, 180.12500000000003, 180.15250000000003,
	180.18000000000004, 180.20750000000004, 180.23500000000004,
	180.26250000000005, 180.29000000000002, 180.31750000000002,
	180.34500000000003, 180.37250000000003, 180.40000000000003,
	180.42750000000004, 180.45500000000004, 180.48250000000002,
	180.51000000000002, 180.53750000000002, 180.56500000000003,
	180.59250000000003, 180.62000000000003, 180.64750000000004,
	180.67500000000004, 180.70250000000004, 180.73000000000002,
	180.75750000000002, 180.78500000000003, 180.81250000000003,
	180.84000000000003, 180.86750000000004, 180.89500000000004,
	180.92250000000004, 180.95000000000005, 180.97750000000002,
	181.00500000000002, 181.03250000000003, 181.06000000000003,
	181.08750000000003, 181.11500000000004, 181.14250000000004,
	181.17000000000002, 181.19750000000002, 181.22500000000002,
	181.25250000000003, 181.28000000000003, 181.30750000000003,
	181.33500000000004, 181.36250000000004, 181.39000000000004,
	181.41750000000002, 181.44500000000002, 181.47250000000003,
	181.50000000000003, 181.52750000000003, 181.55500000000004,
	181.58250000000004, 181.61000000000004, 181.63750000000005,
	181.66500000000002, 181.69250000000002, 181.72000000000003,
	181.74750000000003, 181.77500000000003, 181.80250000000004,
	181.83000000000004, 181.85750000000002, 181.88500000000002,
	181.91250000000002, 181.94000000000003, 181.96750000000003,
	181.99500000000003, 182.02250000000004, 182.05000000000004,
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	182.16000000000003, 182.18750000000003, 182.21500000000003,
	182.24250000000004, 182.27000000000004, 182.29750000000004,
	182.32500000000005, 182.35250000000002, 182.38000000000002,
	182.40750000000003, 182.43500000000003, 182.46250000000003,
	182.49000000000004, 182.51750000000004, 182.54500000000002,
	182.57250000000002, 182.60000000000002, 182.62750000000003,
	182.65500000000003, 182.68250000000003, 182.71000000000004,
	182.73750000000004, 182.76500000000004, 182.79250000000002,
	182.82000000000002, 182.84750000000003, 182.87500000000003,
	182.90250000000003, 182.93000000000004, 182.95750000000004,
	182.98500000000004, 183.01250000000005, 183.04000000000002,
	183.06750000000002, 183.09500000000003, 183.12250000000003,
	183.15000000000003, 183.17750000000004, 183.20500000000004,
	183.23250000000002, 183.26000000000002, 183.28750000000002,
	183.31500000000003, 183.34250000000003, 183.37000000000003,

Description	Value
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Description	Value
	187.35750000000002, 187.38500000000002, 187.41250000000002,
	187.44000000000003, 187.46750000000003, 187.49500000000003,
	187.52250000000004, 187.55000000000004, 187.57750000000004,
	187.60500000000002, 187.63250000000002, 187.66000000000003,
	187.68750000000003, 187.71500000000003, 187.74250000000004,
	187.77000000000004, 187.79750000000004, 187.82500000000005,
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Description	Value
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VALUES OF DEPENDENT VARIABLES

Description	Value
Settings	User controlled
Method	Solution
Study	Study 3 (CV 21 to 30)
Settings	User controlled
Method	Solution
Study	Study 3 (CV 21 to 30)

MESH

Feature	Value
Geometry 1	mesh1

PHYSICS AND VARIABLES SELECTION

Physics interface	Discretization
Transport of Diluted Species in droplet (tds)	physics
Moving Mesh (ale)	physics

MESH SELECTION

Geometry	Mesh
Geometry 1 (geom1)	mesh1

6.2 SOLVER CONFIGURATIONS

6.2.1 Solution 8

Compile Equations: Time Dependent (st1)

STUDY AND STEP

Description	Value
Use study	Study 4 (CV 31 to 38)
Use study step	Time Dependent

LOG

```

<---- Compile Equations: Time Dependent in Study 4 (CV 31 to 38)/Solution 8
      (sol8) -----
Started at May 31, 2023 11:06:43 AM.
Geometry shape function: Linear Lagrange
Running on Intel64 Family 6 Model 158 Stepping 10, GenuineIntel.
Using 1 socket with 6 cores in total on LAPTOP-2492RD8I.
Available memory: 32.27 GB.
Time: 2 s.
Physical memory: 2.43 GB
Virtual memory: 2.51 GB
Ended at May 31, 2023 11:06:45 AM.
----- Compile Equations: Time Dependent in Study 4 (CV 31 to 38)/Solution 8
      (sol8) ----->

```

Dependent Variables 1 (v1)

GENERAL

Description	Value
Defined by study step	Time Dependent

INITIAL VALUES OF VARIABLES SOLVED FOR

Description	Value
Method	Solution
Solution	Remeshed Solution 3

RESIDUAL SCALING

Description	Value
Method	Manual

VALUES OF VARIABLES NOT SOLVED FOR

Description	Value
-------------	-------

Description	Value
Method	Solution
Solution	Remeshed Solution 3

INITIAL VALUE CALCULATION CONSTANTS

Constant name	Initial value source
t	range(30*t_cv,t_tot/nb/200,38*t_cv)
timestep	0.044[s]

LOG

```
<---- Dependent Variables 1 in Study 4 (CV 31 to 38)/Solution 8 (sol8) -----
Started at May 31, 2023 11:06:45 AM.
Initial values of variables solved for: Remeshed Solution 3 (sol7), t=165 s [Last].
Values of variables not solved for: Remeshed Solution 3 (sol7), t=165 s [Last].
Solution time: 0 s.
Physical memory: 2.44 GB
Virtual memory: 2.52 GB
Ended at May 31, 2023 11:06:45 AM.
----- Dependent Variables 1 in Study 4 (CV 31 to 38)/Solution 8 (sol8) ----->
```

Concentration (comp1.cOx) (comp1_cOx)

GENERAL

Description	Value
Field components	comp1.cOx
Internal variables	{comp1.uflux.cOx, comp1.dflux.cOx}

Concentration (comp1.cRed) (comp1_cRed)

GENERAL

Description	Value
Field components	comp1.cRed
Internal variables	{comp1.uflux.cRed, comp1.dflux.cRed}

comp1.comp1.RgZg (comp1_comp1_RgZg)

GENERAL

Description	Value
Field components	{Rg, Zg}
Solve for this field	Off

Spatial mesh displacement (comp1.spatial.disp) (comp1_spatial_disp)

GENERAL

Description	Value
Field components	{comp1.spatial.u, comp1.spatial.w}

SCALING

Description	Value
Method	Manual
Scale	1.3669045321455333E-7

Time-Dependent Solver 1 (t1)

GENERAL

Description	Value
Defined by study step	Time Dependent
Output times	{165.00000000000003, 165.02750000000003, 165.05500000000004, 165.08250000000004, 165.11000000000004, 165.13750000000002, 165.16500000000002, 165.19250000000002, 165.22000000000003, 165.24750000000003, 165.27500000000003, 165.30250000000004, 165.33000000000004, 165.35750000000002, 165.38500000000002, 165.41250000000002, 165.44000000000003, 165.46750000000003, 165.49500000000003, 165.52250000000004, 165.55000000000004, 165.57750000000001, 165.60500000000002, 165.63250000000002, 165.66000000000003, 165.68750000000003, 165.71500000000003, 165.74250000000004, 165.77000000000004, 165.79750000000004, 165.82500000000002, 165.85250000000002, 165.88000000000002, 165.90750000000003, 165.93500000000003, 165.96250000000003, 165.99000000000004, 166.01750000000004, 166.04500000000002, 166.07250000000002, 166.10000000000002, 166.12750000000003, 166.15500000000003, 166.18250000000003, 166.21000000000004, 166.23750000000004, 166.26500000000001, 166.29250000000002, 166.32000000000002, 166.34750000000003, 166.37500000000003, 166.40250000000003, 166.43000000000004, 166.45750000000004, 166.48500000000004, 166.51250000000002, 166.54000000000002, 166.56750000000002, 166.59500000000003, 166.62250000000003, 166.65000000000003, 166.67750000000004, 166.70500000000004, 166.73250000000002, 166.76000000000002, 166.78750000000002, 166.81500000000003, 166.84250000000003, 166.87000000000003, 166.89750000000004, 166.92500000000004, 166.95250000000001, 166.98000000000002, 167.00750000000002, 167.03500000000003, 167.06250000000003, 167.09000000000003, 167.11750000000004, 167.14500000000004, 167.17250000000004, 167.20000000000002, 167.22750000000002, 167.25500000000002, 167.28250000000003, 167.31000000000003, 167.33750000000003, 167.36500000000004, 167.39250000000004, 167.42000000000002, 167.44750000000002, 167.47500000000002, 167.50250000000003, 167.53000000000003, 167.55750000000003, 167.58500000000004, 167.61250000000004, 167.64000000000004, 167.66750000000002, 167.69500000000002, 167.72250000000003, 167.75000000000003, 167.77750000000003, 167.80500000000004, 167.83250000000004, 167.86000000000004, 167.88750000000002, 167.91500000000002, 167.94250000000002, 167.97000000000003, 167.99750000000003, 168.02500000000003,

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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
	207.65250000000003, 207.68000000000004, 207.70750000000004, 207.73500000000004, 207.76250000000005, 207.79000000000002, 207.81750000000002, 207.84500000000003, 207.87250000000003, 207.90000000000003, 207.92750000000004, 207.95500000000004, 207.98250000000004, 208.01000000000005, 208.03750000000002, 208.06500000000003, 208.09250000000003, 208.12000000000003, 208.14750000000004, 208.17500000000004, 208.20250000000004, 208.23000000000002, 208.25750000000005, 208.28500000000003, 208.31250000000003, 208.34000000000003, 208.36750000000004, 208.39500000000004, 208.42250000000004, 208.45000000000005, 208.47750000000002, 208.50500000000002, 208.53250000000003, 208.56000000000003, 208.58750000000003, 208.61500000000004, 208.64250000000004, 208.67000000000004, 208.69750000000005, 208.72500000000002, 208.75250000000003, 208.78000000000003, 208.80750000000003, 208.83500000000004, 208.86250000000004, 208.89000000000004, 208.91750000000002, 208.94500000000005, 208.97250000000003, 209.00000000000003}
Relative tolerance	0.005

TIME STEPPING

Description	Value
Maximum BDF order	2
Nonlinear controller	On

LOG

368	196.76	0.051309	58	30	58	2	2	0	6.8e-14	5.1e-15
-	196.79	- out								
369	196.81	0.051309	60	31	60	2	2	0	1.5e-14	5.7e-15
-	196.82	- out								
-	196.85	- out								
370	196.87	0.051309	62	32	62	2	2	0	8.9e-14	5.3e-15
-	196.87	- out								
-	196.9	- out								
-	196.93	- out								
-	196.96	- out								
371	196.97	0.10262	64	33	64	2	2	0	7.5e-14	3.9e-15
-	196.98	- out								
-	197.01	- out								
-	197.04	- out								
372	197.05	0.08619	66	34	66	2	2	0	1.5e-13	4.6e-15
-	197.07	- out								
-	197.09	- out								
-	197.12	- out								
373	197.13	0.077571	68	35	68	2	2	0	2.7e-13	3.6e-15
-	197.15	- out								
-	197.18	- out								
-	197.2	- out								
374	197.21	0.077571	70	36	70	2	2	0	8.8e-14	4.4e-15
-	197.23	- out								
-	197.26	- out								
-	197.29	- out								
375	197.29	0.077571	72	37	72	2	2	0	4.1e-13	2.9e-15
-	197.31	- out								
-	197.34	- out								
376	197.36	0.077571	74	38	74	2	2	0	5.1e-13	4.9e-15
-	197.37	- out								
-	197.4	- out								
-	197.42	- out								
377	197.44	0.077571	76	39	76	2	2	0	2.1e-13	3.3e-15
-	197.45	- out								
-	197.48	- out								
-	197.51	- out								
378	197.52	0.077571	78	40	78	2	2	0	6.3e-13	5.4e-15
-	197.53	- out								
-	197.56	- out								
-	197.59	- out								
-	197.62	- out								
-	197.64	- out								
-	197.67	- out								
379	197.68	0.15514	80	41	80	2	2	0	1.7e-12	4.5e-15
-	197.7	- out								
-	197.73	- out								
-	197.75	- out								
-	197.78	- out								
-	197.81	- out								
380	197.83	0.15514	82	42	82	2	2	0	1.3e-12	3e-15
-	197.84	- out								
-	197.86	- out								
-	197.89	- out								
-	197.92	- out								
-	197.95	- out								

-	197.97	- out								
381	197.99	0.15514	84	43	84	2	2	0	1.5e-12	3e-15
-	198	- out								
-	198.03	- out								
-	198.06	- out								
-	198.08	- out								
-	198.11	- out								
-	198.14	- out								
382	198.14	0.15514	86	44	86	2	2	0	9.6e-14	4.2e-15
-	198.17	- out								
-	198.19	- out								
-	198.22	- out								
-	198.25	- out								
-	198.28	- out								
-	198.3	- out								
-	198.33	- out								
-	198.36	- out								
-	198.39	- out								
-	198.41	- out								
-	198.44	- out								
383	198.45	0.31029	88	45	88	2	2	0	3.1e-13	4.4e-15
-	198.47	- out								
-	198.5	- out								
-	198.52	- out								
-	198.55	- out								
384	198.57	0.12036	92	47	92	2	3	0	6.4e-13	4.6e-15
-	198.58	- out								
-	198.61	- out								
-	198.63	- out								
-	198.66	- out								
-	198.69	- out								
385	198.69	0.12036	94	48	94	2	3	0	9.5e-14	4.4e-15
-	198.72	- out								
-	198.74	- out								
386	198.76	0.066976	98	50	98	2	4	0	2.4e-13	5.2e-15
-	198.77	- out								
-	198.8	- out								
-	198.83	- out								
387	198.83	0.066976	100	51	100	2	4	0	2e-13	3.8e-15
-	198.85	- out								
-	198.88	- out								
388	198.89	0.060279	102	52	102	2	4	0	1.2e-13	5e-15
-	198.91	- out								
-	198.94	- out								
389	198.95	0.060279	104	53	104	2	4	0	1.9e-13	5.5e-15
-	198.96	- out								
-	198.99	- out								
390	199.01	0.060279	106	54	106	2	4	0	6.8e-14	6e-15
-	199.02	- out								
-	199.05	- out								
391	199.07	0.060279	108	55	108	2	4	0	2.4e-14	8.2e-15
-	199.07	- out								
-	199.1	- out								
392	199.13	0.060279	110	56	110	2	4	0	9.4e-15	2.4e-14
-	199.13	- out								
-	199.16	- out								

-	199.18	- out								
393	199.19	0.060279	112	57	112	2	4	0	3.6e-14	1.2e-14
-	199.21	- out								
-	199.24	- out								
394	199.25	0.060279	114	58	114	2	4	0	3.5e-14	8.6e-15
-	199.27	- out								
-	199.29	- out								
395	199.31	0.060279	116	59	116	2	4	0	1.8e-14	8.8e-15
-	199.32	- out								
-	199.35	- out								
396	199.37	0.060279	118	60	118	2	4	0	1.2e-14	7.8e-15
-	199.38	- out								
-	199.4	- out								
397	199.43	0.060279	120	61	120	2	4	0	2.3e-14	7.4e-15
-	199.43	- out								
-	199.46	- out								
-	199.49	- out								
398	199.49	0.060279	122	62	122	2	4	0	2.3e-13	7.2e-15
-	199.51	- out								
-	199.54	- out								
399	199.55	0.060279	124	63	124	2	4	0	7.2e-14	6.1e-15
-	199.57	- out								
-	199.6	- out								
400	199.61	0.060279	126	64	126	2	4	0	5.1e-14	5.5e-15
-	199.62	- out								
-	199.65	- out								
401	199.67	0.060279	128	65	128	2	4	0	6.9e-14	5.2e-15
-	199.68	- out								
-	199.71	- out								
402	199.73	0.060279	130	66	130	2	4	0	1.6e-14	9.1e-15
-	199.73	- out								
-	199.76	- out								
-	199.79	- out								
403	199.79	0.060279	132	67	132	2	4	0	3.4e-14	3.6e-15
-	199.82	- out								
-	199.84	- out								
404	199.85	0.060279	134	68	134	2	4	0	1.2e-13	3.6e-15
-	199.87	- out								
-	199.9	- out								
405	199.91	0.060279	136	69	136	2	4	0	3.1e-13	3.3e-15
-	199.93	- out								
-	199.95	- out								
406	199.97	0.060279	138	70	138	2	4	0	2.9e-13	3.3e-15
-	199.98	- out								
-	200.01	- out								
407	200.03	0.060279	140	71	140	2	4	0	3.7e-13	3.4e-15
-	200.04	- out								
-	200.06	- out								
-	200.09	- out								
408	200.09	0.060279	142	72	142	2	4	0	2.8e-13	4.4e-15
-	200.12	- out								
-	200.15	- out								
409	200.15	0.060279	144	73	144	2	4	0	1.4e-12	5.4e-15
-	200.17	- out								
-	200.2	- out								
410	200.21	0.060279	146	74	146	2	4	0	3.5e-13	4e-15

-	200.23	- out								
-	200.26	- out								
411	200.27	0.060279	148	75	148	2	4	0	7.2e-13	5.3e-15
-	200.28	- out								
-	200.31	- out								
-	200.34	- out								
-	200.37	- out								
-	200.39	- out								
412	200.39	0.12056	150	76	150	2	4	0	5.1e-13	4.5e-15
-	200.42	- out								
-	200.45	- out								
-	200.48	- out								
-	200.5	- out								
413	200.51	0.12056	152	77	152	2	4	0	1.8e-12	4.6e-15
-	200.53	- out								
-	200.56	- out								
-	200.59	- out								
-	200.61	- out								
414	200.63	0.12056	154	78	154	2	4	0	5.2e-13	3.9e-15
-	200.64	- out								
-	200.67	- out								
-	200.7	- out								
-	200.72	- out								
-	200.75	- out								
415	200.75	0.12056	156	79	156	2	4	0	2e-12	6.5e-15
-	200.78	- out								
-	200.81	- out								
-	200.83	- out								
-	200.86	- out								
416	200.88	0.12056	158	80	158	2	4	0	2.2e-13	7.1e-15
-	200.89	- out								
-	200.92	- out								
-	200.94	- out								
-	200.97	- out								
417	201	0.12056	160	81	160	2	4	0	4.5e-14	4.7e-15
-	201	- out								
-	201.03	- out								
-	201.05	- out								
-	201.08	- out								
-	201.11	- out								
418	201.12	0.12056	162	82	162	2	4	0	2.4e-13	4.3e-15
-	201.14	- out								
-	201.16	- out								
-	201.19	- out								
-	201.22	- out								
419	201.24	0.12056	164	83	164	2	4	0	2.9e-13	3.8e-15
-	201.24	- out								
420	201.36	0.12056	166	84	166	2	4	0	3.3e-13	2.9e-15

Number of vertex elements: 3
 Number of boundary elements: 112
 Number of vertex elements: 3
 Number of boundary elements: 112
 Number of elements: 534
 Minimum element quality: 0.5661
 Number of vertex elements: 4
 Number of boundary elements: 162

Number of vertex elements: 5
 Number of boundary elements: 212
 Number of vertex elements: 6
 Number of boundary elements: 266
 Minimum element quality: 0.09645
 Geometry shape function: Linear Lagrange
 Time interval 5
 Time-dependent solver (BDF)
 Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).
 Nonsymmetric matrix found.
 Scales for dependent variables:
 Concentration (compl.cOx): 4.2
 Concentration (compl.cRed): 2.8
 Spatial mesh displacement (compl.spatial.disp): 1.4e-07

Step	Time	Stepsize	Res	Jac	Sol	Order	Tfail	NLfail	LinErr	LinRes
-	201.24	- out								
-	201.25	- out								
421	201.26	0.0275	2	2	2	1	0	0	1.3e-14	2.7e-15
-	201.27	- out								
422	201.29	0.0275	4	3	4	1	0	0	1.3e-13	3.2e-15
-	201.3	- out								
-	201.33	- out								
423	201.35	0.055	6	4	6	2	0	0	1.7e-13	3.1e-15
-	201.36	- out								
-	201.38	- out								
-	201.41	- out								
-	201.44	- out								
424	201.46	0.11	8	5	8	2	0	0	9.7e-14	3.2e-15
-	201.47	- out								
-	201.49	- out								
-	201.52	- out								
425	201.55	0.090001	10	6	10	2	0	0	1.7e-13	3.6e-15
-	201.55	- out								
-	201.58	- out								
-	201.6	- out								
426	201.62	0.077339	12	7	12	2	0	0	3.8e-14	3.5e-15
-	201.63	- out								
-	201.66	- out								
-	201.69	- out								
427	201.69	0.064268	14	8	14	2	0	0	8.9e-14	4e-15
-	201.71	- out								
-	201.74	- out								
428	201.75	0.05694	16	9	16	2	0	0	1.3e-13	3.4e-15
-	201.77	- out								
-	201.8	- out								
429	201.8	0.051246	18	10	18	2	0	0	1.4e-13	6e-15
-	201.82	- out								
430	201.85	0.051246	20	11	20	2	0	0	4.2e-14	5.6e-15
-	201.85	- out								
-	201.88	- out								
431	201.9	0.051246	22	12	22	2	0	0	1.9e-14	6.1e-15
-	201.91	- out								
-	201.93	- out								
432	201.95	0.051246	24	13	24	2	0	0	6.8e-14	4.3e-15
-	201.96	- out								
-	201.99	- out								

433	202	0.051246	26	14	26	2	0	0	1.8e-14	3.7e-15
-	202.02	- out								
-	202.04	- out								
434	202.05	0.051246	28	15	28	2	0	0	4.1e-14	5e-15
-	202.07	- out								
-	202.1	- out								
435	202.1	0.051246	30	16	30	2	0	0	1.4e-14	4.2e-15
-	202.13	- out								
-	202.15	- out								
436	202.16	0.051246	32	17	32	2	0	0	4.5e-14	4.2e-15
-	202.18	- out								
437	202.21	0.051246	34	18	34	2	0	0	9.5e-15	3.7e-15
-	202.21	- out								
-	202.24	- out								
438	202.26	0.051246	36	19	36	2	0	0	9.9e-15	4.3e-15
-	202.26	- out								
-	202.29	- out								
439	202.31	0.051246	38	20	38	2	0	0	2.1e-14	9.8e-15
-	202.32	- out								
-	202.35	- out								
-	202.37	- out								
-	202.4	- out								
440	202.41	0.10249	40	21	40	2	0	0	1.3e-13	4.2e-15
-	202.43	- out								
-	202.46	- out								
-	202.48	- out								
441	202.5	0.091526	42	22	42	2	0	0	1e-13	4e-15
-	202.51	- out								
-	202.54	- out								
-	202.57	- out								
442	202.59	0.082373	44	23	44	2	0	0	1e-13	2.8e-15
-	202.59	- out								
-	202.62	- out								
-	202.65	- out								
443	202.66	0.074136	46	24	46	2	0	0	5.5e-14	3e-15
-	202.68	- out								
-	202.7	- out								
-	202.73	- out								
444	202.73	0.074136	48	25	48	2	0	0	2.1e-13	4.5e-15
-	202.76	- out								
-	202.79	- out								
445	202.81	0.074136	50	26	50	2	0	0	3.7e-13	3.7e-15
-	202.81	- out								
-	202.84	- out								
-	202.87	- out								
446	202.88	0.074136	52	27	52	2	0	0	7.5e-13	5.4e-15
-	202.9	- out								
-	202.92	- out								
-	202.95	- out								
447	202.96	0.074136	54	28	54	2	0	0	6.1e-13	3.5e-15
-	202.98	- out								
-	203.01	- out								
448	203.03	0.074136	56	29	56	2	0	0	5.4e-13	3.4e-15
-	203.03	- out								
-	203.06	- out								
-	203.09	- out								

-	203.12	- out									
-	203.14	- out									
-	203.17	- out									
449	203.18	0.14827	58	30	58	2	0	0	1.3e-12	4.4e-15	
-	203.2	- out									
-	203.23	- out									
-	203.25	- out									
-	203.28	- out									
-	203.31	- out									
450	203.33	0.14827	60	31	60	2	0	0	2.7e-13	3.1e-15	
-	203.34	- out									
-	203.36	- out									
-	203.39	- out									
-	203.42	- out									
-	203.45	- out									
-	203.47	- out									
451	203.48	0.14827	62	32	62	2	0	0	4.4e-13	4.5e-15	
-	203.5	- out									
-	203.53	- out									
-	203.56	- out									
-	203.58	- out									
-	203.61	- out									
452	203.62	0.14827	64	33	64	2	0	0	2.3e-13	8.4e-15	
-	203.64	- out									
-	203.67	- out									
-	203.69	- out									
-	203.72	- out									
-	203.75	- out									
-	203.78	- out									
-	203.8	- out									
-	203.83	- out									
-	203.86	- out									
-	203.89	- out									
-	203.91	- out									
453	203.92	0.29654	66	34	66	2	0	0	2.2e-13	4.1e-15	
-	203.94	- out									
-	203.97	- out									
-	204	- out									
-	204.02	- out									
454	204.04	0.11543	70	36	70	2	1	0	4.3e-13	4.2e-15	
-	204.05	- out									
-	204.08	- out									
-	204.11	- out									
-	204.13	- out									
455	204.15	0.11543	72	37	72	2	1	0	4.1e-13	4.2e-15	
-	204.16	- out									
-	204.19	- out									
456	204.21	0.063119	76	39	76	2	2	0	6.4e-13	5e-15	
-	204.22	- out									
-	204.24	- out									
-	204.27	- out									
457	204.28	0.063119	78	40	78	2	2	0	2.6e-13	3.9e-15	
-	204.3	- out									
-	204.33	- out									
458	204.33	0.056808	80	41	80	2	2	0	1.6e-13	4.3e-15	
-	204.35	- out									

-	204.38	- out								
459	204.39	0.056808	82	42	82	2	2	0	8.1e-14	6.5e-15
-	204.41	- out								
-	204.44	- out								
460	204.45	0.056808	84	43	84	2	2	0	1e-13	6.7e-15
-	204.46	- out								
-	204.49	- out								
461	204.5	0.056808	86	44	86	2	2	0	8.8e-14	8.5e-15
-	204.52	- out								
-	204.55	- out								
462	204.56	0.056808	88	45	88	2	2	0	4.1e-14	1.3e-14
-	204.57	- out								
-	204.6	- out								
463	204.62	0.056808	90	46	90	2	2	0	3.1e-14	1.8e-14
-	204.63	- out								
-	204.66	- out								
464	204.67	0.056808	92	47	92	2	2	0	1.9e-14	2.4e-14
-	204.68	- out								
-	204.71	- out								
-	204.74	- out								
-	204.77	- out								
465	204.79	0.11362	94	48	94	2	2	0	1.4e-14	5.2e-14
-	204.79	- out								
-	204.82	- out								
-	204.85	- out								
-	204.88	- out								
466	204.89	0.10225	96	49	96	2	2	0	1.2e-13	8e-15
-	204.9	- out								
-	204.93	- out								
-	204.96	- out								
-	204.99	- out								
467	204.99	0.10225	98	50	98	2	2	0	8.2e-14	7.2e-15
-	205.01	- out								
-	205.04	- out								
-	205.07	- out								
468	205.08	0.092028	100	51	100	2	2	0	5.8e-14	5.4e-15
-	205.1	- out								
-	205.12	- out								
-	205.15	- out								
469	205.16	0.079069	102	52	102	2	2	0	7.5e-14	4.4e-15
-	205.18	- out								
-	205.21	- out								
-	205.23	- out								
470	205.24	0.071162	104	53	104	2	2	0	1.4e-13	6.1e-15
-	205.26	- out								
-	205.29	- out								
471	205.31	0.071162	106	54	106	2	2	0	1.8e-13	5.3e-15
-	205.32	- out								
-	205.34	- out								
-	205.37	- out								
472	205.38	0.071162	108	55	108	2	2	0	8.3e-14	3.8e-15
-	205.4	- out								
-	205.43	- out								
473	205.45	0.071162	110	56	110	2	2	0	1.3e-13	4.8e-15
-	205.45	- out								
-	205.48	- out								

-	205.51	- out								
474	205.52	0.071162	112	57	112	2	2	0	3.2e-13	4.4e-15
-	205.54	- out								
-	205.56	- out								
-	205.59	- out								
475	205.59	0.071162	114	58	114	2	2	0	9.8e-14	2.8e-15
-	205.62	- out								
-	205.65	- out								
476	205.66	0.071162	116	59	116	2	2	0	5.6e-13	4.3e-15
-	205.67	- out								
-	205.7	- out								
-	205.73	- out								
477	205.73	0.071162	118	60	118	2	2	0	1.3e-12	5.5e-15
-	205.76	- out								
-	205.78	- out								
478	205.8	0.071162	120	61	120	2	2	0	1.1e-13	4.8e-15
-	205.81	- out								
-	205.84	- out								
-	205.87	- out								
479	205.88	0.071162	122	62	122	2	2	0	7.6e-13	3.8e-15
-	205.89	- out								
-	205.92	- out								
480	205.95	0.071162	124	63	124	2	2	0	1.3e-12	5.7e-15
-	205.95	- out								
-	205.98	- out								
-	206	- out								
481	206.02	0.071162	126	64	126	2	2	0	4.4e-13	4.1e-15
-	206.03	- out								
-	206.06	- out								
-	206.09	- out								
482	206.09	0.071162	128	65	128	2	2	0	4.8e-13	3.4e-15
-	206.11	- out								
-	206.14	- out								
-	206.17	- out								
-	206.2	- out								
-	206.22	- out								
483	206.23	0.14232	130	66	130	2	2	0	2.9e-13	4.4e-15
-	206.25	- out								
-	206.28	- out								
-	206.31	- out								
-	206.33	- out								
-	206.36	- out								
484	206.37	0.14232	132	67	132	2	2	0	3.3e-14	2.4e-14
-	206.39	- out								
-	206.42	- out								
-	206.44	- out								
-	206.47	- out								
-	206.5	- out								
485	206.52	0.14232	134	68	134	2	2	0	2.5e-14	2.2e-14
-	206.52	- out								
486	206.66	0.14232	136	69	136	2	2	0	4.6e-13	3.4e-15

Number of vertex elements: 3
 Number of boundary elements: 112
 Number of vertex elements: 3
 Number of boundary elements: 112
 Number of elements: 534

Minimum element quality: 0.5661
 Number of vertex elements: 4
 Number of boundary elements: 162
 Number of vertex elements: 5
 Number of boundary elements: 212
 Number of vertex elements: 6
 Number of boundary elements: 266
 Minimum element quality: 0.07019
 Geometry shape function: Linear Lagrange
 Time interval 6
 Time-dependent solver (BDF)
 Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).
 Nonsymmetric matrix found.
 Scales for dependent variables:
 Concentration (compl.cOx): 4.8
 Concentration (compl.cRed): 3.2
 Spatial mesh displacement (compl.spatial.disp): 1.4e-07

Step	Time	Stepsize	Res	Jac	Sol	Order	Tfail	NLfail	LinErr	LinRes
-	206.52	- out								
-	206.53	- out								
487	206.54	0.0275	2	2	2	1	0	0	1.6e-14	2.7e-15
-	206.55	- out								
488	206.57	0.0275	4	3	4	1	0	0	1.5e-13	3.6e-15
-	206.58	- out								
-	206.61	- out								
489	206.63	0.055	6	4	6	2	0	0	2.9e-14	2.2e-15
-	206.64	- out								
-	206.66	- out								
490	206.68	0.055	8	5	8	2	0	0	4.9e-13	5.2e-15
-	206.69	- out								
-	206.72	- out								
-	206.75	- out								
-	206.77	- out								
491	206.79	0.11	10	6	10	2	0	0	1.5e-13	3.1e-15
-	206.8	- out								
-	206.83	- out								
-	206.86	- out								
-	206.88	- out								
492	206.9	0.11	12	7	12	2	0	0	6.2e-13	6.1e-15
-	206.91	- out								
-	206.94	- out								
493	206.96	0.063869	16	9	16	2	1	0	6.2e-14	4.8e-15
-	206.97	- out								
-	206.99	- out								
-	207.02	- out								
494	207.03	0.063869	18	10	18	2	1	0	2.3e-13	4e-15
-	207.05	- out								
-	207.08	- out								
495	207.09	0.057482	20	11	20	2	1	0	2.8e-14	5.2e-15
-	207.1	- out								
-	207.13	- out								
496	207.14	0.051734	22	12	22	2	1	0	5e-14	5.9e-15
-	207.16	- out								
497	207.18	0.046561	24	13	24	2	1	0	7.1e-14	4.8e-15
-	207.19	- out								
-	207.21	- out								

498	207.23	0.046561	26	14	26	2	1	0	4.9e-14	4e-15
-	207.24	- out								
-	207.27	- out								
499	207.28	0.046561	28	15	28	2	1	0	1.1e-13	5.5e-15
-	207.3	- out								
-	207.32	- out								
500	207.32	0.046561	30	16	30	2	1	0	5.2e-14	4.1e-15
-	207.35	- out								
501	207.37	0.046561	32	17	32	2	1	0	2.6e-14	2.6e-14
-	207.38	- out								
-	207.41	- out								
502	207.42	0.046561	34	18	34	2	1	0	2.7e-14	4e-15
-	207.43	- out								
-	207.46	- out								
503	207.46	0.046561	36	19	36	2	1	0	3.8e-14	4.4e-15
-	207.49	- out								
504	207.51	0.046561	38	20	38	2	1	0	7.6e-14	4.3e-15
-	207.52	- out								
-	207.54	- out								
505	207.56	0.046561	40	21	40	2	1	0	4.7e-14	5.7e-15
-	207.57	- out								
-	207.6	- out								
506	207.6	0.046561	42	22	42	2	1	0	2.5e-14	5.2e-15
-	207.63	- out								
507	207.65	0.046561	44	23	44	2	1	0	2.8e-14	4.2e-15
-	207.65	- out								
-	207.68	- out								
508	207.7	0.046561	46	24	46	2	1	0	5.8e-14	5.1e-15
-	207.71	- out								
-	207.74	- out								
509	207.74	0.046561	48	25	48	2	1	0	3.1e-14	6.4e-15
-	207.76	- out								
510	207.79	0.046561	50	26	50	2	1	0	4.2e-14	5.5e-15
-	207.79	- out								
-	207.82	- out								
-	207.85	- out								
-	207.87	- out								
511	207.88	0.093121	52	27	52	2	1	0	6.2e-14	4.7e-15
-	207.9	- out								
-	207.93	- out								
-	207.96	- out								
512	207.97	0.083809	54	28	54	2	1	0	2e-13	4.7e-15
-	207.98	- out								
-	208.01	- out								
-	208.04	- out								
513	208.05	0.083809	56	29	56	2	1	0	1e-13	4.2e-15
-	208.07	- out								
-	208.09	- out								
-	208.12	- out								
514	208.13	0.075428	58	30	58	2	1	0	4.6e-14	2.8e-15
-	208.15	- out								
-	208.18	- out								
515	208.2	0.075428	60	31	60	2	1	0	1.9e-13	4.2e-15
-	208.2	- out								
-	208.23	- out								
-	208.26	- out								

```

516    208.28    0.075428    62    32    62    2    1    0    2e-13    3e-15
-      208.29          - out
-      208.31          - out
-      208.34          - out
517    208.35    0.075428    64    33    64    2    1    0    3.9e-13    4.3e-15
-      208.37          - out
-      208.4          - out
-      208.42          - out
518    208.43    0.075428    66    34    66    2    1    0    1e-12    3e-15
-      208.45          - out
-      208.48          - out
519    208.5     0.075428    68    35    68    2    1    0    4.4e-13    4.4e-15
-      208.51          - out
-      208.53          - out
-      208.56          - out
520    208.58    0.075428    70    36    70    2    1    0    3.8e-13    3.4e-15
-      208.59          - out
-      208.62          - out
-      208.64          - out
-      208.67          - out
-      208.7          - out
-      208.73          - out
521    208.73    0.15086     72    37    72    2    1    0    7.3e-13    3e-15
-      208.75          - out
-      208.78          - out
-      208.81          - out
-      208.84          - out
-      208.86          - out
522    208.88    0.15086     74    38    74    2    1    0    1.4e-12    3.3e-15
-      208.89          - out
-      208.92          - out
-      208.95          - out
-      208.97          - out
-      209            - out
523    209.03    0.15086     76    39    76    2    1    0    2.1e-13    4.7e-15

```

Time-stepping completed.

Geometry shape function: Linear Lagrange

Solution time: 639 s. (10 minutes, 39 seconds)

Physical memory: 2.82 GB

Virtual memory: 2.92 GB

Ended at May 31, 2023 11:17:24 AM.

----- Time-Dependent Solver 1 in Study 4 (CV 31 to 38)/Solution 8 (sol8) ----->

Advanced (aDef)

ASSEMBLY SETTINGS

Description	Value
Reuse sparsity pattern	On

Fully Coupled 1 (fc1)

GENERAL

Description	Value
-------------	-------

Description	Value
Linear solver	Direct 1

METHOD AND TERMINATION

Description	Value
Damping factor	0.9
Jacobian update	Once per time step
Maximum number of iterations	8
Stabilization and acceleration	Anderson acceleration
Dimension of iteration space	5

Automatic Remeshing 1 (ar1)

GENERAL

Description	Value
Remesh in geometry	Geometry 1

CONDITION FOR REMESHING

Description	Value
Condition type	Distortion

OUTPUT

Description	Value
Solution	Remeshed Solution 4
Meshes	{mesh6, mesh7, mesh8, mesh9, mesh10}

7 Study 5 (CV 39 to 44)

COMPUTATION INFORMATION

Computation time	17 min 17 s
------------------	-------------

7.1 TIME DEPENDENT

Times	Unit
range(38*t_cv,t_tot/nb/200,44*t_cv)	s

STUDY SETTINGS

Description	Value
Include geometric nonlinearity	Off

STUDY SETTINGS

Description	Value
Output times	{209.00000000000003, 209.02750000000003, 209.05500000000004, 209.08250000000004, 209.11000000000004, 209.13750000000002, 209.16500000000002, 209.19250000000002, 209.22000000000003, 209.24750000000003, 209.27500000000003, 209.30250000000004, 209.33000000000004, 209.35750000000002, 209.38500000000002, 209.41250000000002, 209.44000000000003, 209.46750000000003, 209.49500000000003, 209.52250000000004, 209.55000000000004, 209.57750000000001, 209.60500000000002, 209.63250000000002, 209.66000000000003, 209.68750000000003, 209.71500000000003, 209.74250000000004, 209.77000000000004, 209.79750000000004, 209.82500000000002, 209.85250000000002, 209.88000000000002, 209.90750000000003, 209.93500000000003, 209.96250000000003, 209.99000000000004, 210.01750000000004, 210.04500000000002, 210.07250000000002, 210.10000000000002, 210.12750000000003, 210.15500000000003, 210.18250000000003, 210.21000000000004, 210.23750000000004, 210.26500000000001, 210.29250000000002, 210.32000000000002, 210.34750000000003, 210.37500000000003, 210.40250000000003, 210.43000000000004, 210.45750000000004, 210.48500000000004, 210.51250000000002, 210.54000000000002, 210.56750000000002, 210.59500000000003, 210.62250000000003, 210.65000000000003, 210.67750000000004, 210.70500000000004, 210.73250000000002, 210.76000000000002, 210.78750000000002, 210.81500000000003, 210.84250000000003, 210.87000000000003, 210.89750000000004, 210.92500000000004, 210.95250000000001, 210.98000000000002, 211.00750000000002, 211.03500000000003, 211.06250000000003, 211.09000000000003, 211.11750000000004, 211.14500000000004, 211.17250000000004, 211.20000000000002, 211.22750000000002, 211.25500000000002, 211.28250000000003, 211.31000000000003, 211.33750000000003, 211.36500000000004, 211.39250000000004, 211.42000000000002, 211.44750000000002, 211.47500000000002, 211.50250000000003, 211.53000000000003}

Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
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VALUES OF DEPENDENT VARIABLES

Description	Value
Settings	User controlled
Method	Solution
Study	Study 4 (CV 31 to 38)
Settings	User controlled
Method	Solution
Study	Study 4 (CV 31 to 38)

MESH

Feature	Value
Geometry 1	mesh1

PHYSICS AND VARIABLES SELECTION

Physics interface	Discretization
Transport of Diluted Species in droplet (tds)	physics
Moving Mesh (ale)	physics

MESH SELECTION

Geometry	Mesh
Geometry 1 (geom1)	mesh1

7.2 SOLVER CONFIGURATIONS

7.2.1 Solution 10

Compile Equations: Time Dependent (st1)

STUDY AND STEP

Description	Value
Use study	Study 5 (CV 39 to 44)
Use study step	Time Dependent

LOG

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<---- Compile Equations: Time Dependent in Study 5 (CV 39 to 44)/Solution 10
(sol10) -----
Started at Jun 2, 2023 10:22:24 AM.
Time: 0 s.
Physical memory: 3.36 GB
Virtual memory: 3.21 GB
Ended at Jun 2, 2023 10:22:25 AM.
----- Compile Equations: Time Dependent in Study 5 (CV 39 to 44)/Solution 10
(sol10) ----->
```

Dependent Variables 1 (v1)

GENERAL

Description	Value
Defined by study step	Time Dependent

INITIAL VALUES OF VARIABLES SOLVED FOR

Description	Value
Method	Solution
Solution	Remeshed Solution 4

RESIDUAL SCALING

Description	Value
Method	Manual

VALUES OF VARIABLES NOT SOLVED FOR

Description	Value
Method	Solution
Solution	Remeshed Solution 4

INITIAL VALUE CALCULATION CONSTANTS

Constant name	Initial value source
t	range(38*t_cv,t_tot/nb/200,44*t_cv)
timestep	0.033[s]

LOG

```
<---- Dependent Variables 1 in Study 5 (CV 39 to 43)/Solution 10 (sol10) -----  
Started at May 31, 2023 9:33:23 PM.  
Initial values of variables solved for: Remeshed Solution 4 (sol9), t=209 s [Last].  
Values of variables not solved for: Remeshed Solution 4 (sol9), t=209 s [Last].  
Solution time: 1 s.  
Physical memory: 2.06 GB  
Virtual memory: 2.21 GB  
Ended at May 31, 2023 9:33:24 PM.  
----- Dependent Variables 1 in Study 5 (CV 39 to 43)/Solution 10 (sol10) ----->
```

Concentration (comp1.cOx) (comp1_cOx)

GENERAL

Description	Value
Field components	comp1.cOx
Internal variables	{comp1.uflux.cOx, comp1.dflux.cOx}

Concentration (comp1.cRed) (comp1_cRed)

GENERAL

Description	Value
Field components	comp1.cRed
Internal variables	{comp1.uflux.cRed, comp1.dflux.cRed}

comp1.comp1.RgZg (comp1_comp1_RgZg)

GENERAL

Description	Value
Field components	{Rg, Zg}
Solve for this field	Off

Spatial mesh displacement (comp1.spatial.disp) (comp1_spatial_disp)

GENERAL

Description	Value
Field components	{comp1.spatial.u, comp1.spatial.w}

SCALING

Description	Value
Method	Manual
Scale	6.86772451398569E-8

Time-Dependent Solver 1 (t1)

GENERAL

Description	Value
Defined by study step	Time Dependent
Output times	{209.00000000000003, 209.02750000000003, 209.05500000000004, 209.08250000000004, 209.11000000000004, 209.13750000000002, 209.16500000000002, 209.19250000000002, 209.22000000000003, 209.24750000000003, 209.27500000000003, 209.30250000000004, 209.33000000000004, 209.35750000000002, 209.38500000000002, 209.41250000000002, 209.44000000000003, 209.46750000000003, 209.49500000000003, 209.52250000000004, 209.55000000000004, 209.57750000000001, 209.60500000000002, 209.63250000000002, 209.66000000000003, 209.68750000000003, 209.71500000000003, 209.74250000000004, 209.77000000000004, 209.79750000000004, 209.82500000000002, 209.85250000000002, 209.88000000000002, 209.90750000000003, 209.93500000000003, 209.96250000000003, 209.99000000000004, 210.01750000000004, 210.04500000000002, 210.07250000000002, 210.10000000000002, 210.12750000000003, 210.15500000000003, 210.18250000000003, 210.21000000000004, 210.23750000000004, 210.26500000000001, 210.29250000000002, 210.32000000000002, 210.34750000000003, 210.37500000000003, 210.40250000000003, 210.43000000000004, 210.45750000000004, 210.48500000000004, 210.51250000000002, 210.54000000000002, 210.56750000000002, 210.59500000000003, 210.62250000000003, 210.65000000000003, 210.67750000000004, 210.70500000000004, 210.73250000000002, 210.76000000000002, 210.78750000000002, 210.81500000000003, 210.84250000000003, 210.87000000000003, 210.89750000000004, 210.92500000000004, 210.95250000000001, 210.98000000000002, 211.00750000000002, 211.03500000000003, 211.06250000000003, 211.09000000000003, 211.11750000000004, 211.14500000000004, 211.17250000000004, 211.20000000000002, 211.22750000000002, 211.25500000000002, 211.28250000000003, 211.31000000000003, 211.33750000000003, 211.36500000000004, 211.39250000000004, 211.42000000000002, 211.44750000000002, 211.47500000000002, 211.50250000000003, 211.53000000000003}

Description	Value
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Description	Value
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Description	Value
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Description	Value
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Description	Value
	227.39750000000004, 227.42500000000004, 227.45250000000004, 227.48000000000002, 227.50750000000002, 227.53500000000003, 227.56250000000003, 227.59000000000003, 227.61750000000004, 227.64500000000004, 227.67250000000004, 227.70000000000005, 227.72750000000002, 227.75500000000002, 227.78250000000003, 227.81000000000003, 227.83750000000003, 227.86500000000004, 227.89250000000004, 227.92000000000002, 227.94750000000002, 227.97500000000002, 228.00250000000003, 228.03000000000003, 228.05750000000003, 228.08500000000004, 228.11250000000004, 228.14000000000004, 228.16750000000002, 228.19500000000002, 228.22250000000003, 228.25000000000003, 228.27750000000003, 228.30500000000004, 228.33250000000004, 228.36000000000004, 228.38750000000005, 228.41500000000002, 228.44250000000002, 228.47000000000003, 228.49750000000003, 228.52500000000003, 228.55250000000004, 228.58000000000004, 228.60750000000002, 228.63500000000002, 228.66250000000002, 228.69000000000003, 228.71750000000003, 228.74500000000003, 228.77250000000004, 228.80000000000004, 228.82750000000004, 228.85500000000002, 228.88250000000002, 228.91000000000003, 228.93750000000003, 228.96500000000003, 228.99250000000004, 229.02000000000004, 229.04750000000004, 229.07500000000005, 229.10250000000002, 229.13000000000002, 229.15750000000003, 229.18500000000003, 229.21250000000003, 229.24000000000004, 229.26750000000004, 229.29500000000002, 229.32250000000002, 229.35000000000002, 229.37750000000003, 229.40500000000003, 229.43250000000003, 229.46000000000004, 229.48750000000004, 229.51500000000004, 229.54250000000002, 229.57000000000002, 229.59750000000003, 229.62500000000003, 229.65250000000003, 229.68000000000004, 229.70750000000004, 229.73500000000004, 229.76250000000005, 229.79000000000002, 229.81750000000002, 229.84500000000003, 229.87250000000003, 229.90000000000003, 229.92750000000004, 229.95500000000004, 229.98250000000002, 230.01000000000002, 230.03750000000002, 230.06500000000003, 230.09250000000003, 230.12000000000003, 230.14750000000004, 230.17500000000004, 230.20250000000004, 230.23000000000002, 230.25750000000002, 230.28500000000003, 230.31250000000003, 230.34000000000003, 230.36750000000004, 230.39500000000004, 230.42250000000004, 230.45000000000005, 230.47750000000002, 230.50500000000002, 230.53250000000003, 230.56000000000003, 230.58750000000003, 230.61500000000004, 230.64250000000004, 230.67000000000002, 230.69750000000002, 230.72500000000002, 230.75250000000003, 230.78000000000003, 230.80750000000003, 230.83500000000004, 230.86250000000004, 230.89000000000004, 230.91750000000002, 230.94500000000002, 230.97250000000003, 231.00000000000003, 231.02750000000003, 231.05500000000004, 231.08250000000004, 231.11000000000004, 231.13750000000005, 231.16500000000002, 231.19250000000002, 231.22000000000003, 231.24750000000003, 231.27500000000003, 231.30250000000004, 231.33000000000004,

Description	Value
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Description	Value
	235.31750000000002, 235.34500000000003, 235.37250000000003, 235.40000000000003, 235.42750000000004, 235.45500000000004, 235.48250000000002, 235.51000000000005, 235.53750000000002, 235.56500000000003, 235.59250000000003, 235.62000000000003, 235.64750000000004, 235.67500000000004, 235.70250000000004, 235.73000000000002, 235.75750000000002, 235.78500000000003, 235.81250000000003, 235.84000000000003, 235.86750000000004, 235.89500000000004, 235.92250000000004, 235.95000000000005, 235.97750000000002, 236.00500000000002, 236.03250000000003, 236.06000000000003, 236.08750000000003, 236.11500000000004, 236.14250000000004, 236.17000000000004, 236.19750000000005, 236.22500000000002, 236.25250000000003, 236.28000000000003, 236.30750000000003, 236.33500000000004, 236.36250000000004, 236.39000000000004, 236.41750000000002, 236.44500000000002, 236.47250000000003, 236.50000000000003, 236.52750000000003, 236.55500000000004, 236.58250000000004, 236.61000000000004, 236.63750000000005, 236.66500000000002, 236.69250000000002, 236.72000000000003, 236.74750000000003, 236.77500000000003, 236.80250000000004, 236.83000000000004, 236.85750000000004, 236.88500000000005, 236.91250000000002, 236.94000000000003, 236.96750000000003, 236.99500000000003, 237.02250000000004, 237.05000000000004, 237.07750000000004, 237.10500000000002, 237.13250000000002, 237.16000000000003, 237.18750000000003, 237.21500000000003, 237.24250000000004, 237.27000000000004, 237.29750000000004, 237.32500000000005, 237.35250000000002, 237.38000000000002, 237.40750000000003, 237.43500000000003, 237.46250000000003, 237.49000000000004, 237.51750000000004, 237.54500000000004, 237.57250000000005, 237.60000000000002, 237.62750000000003, 237.65500000000003, 237.68250000000003, 237.71000000000004, 237.73750000000004, 237.76500000000004, 237.79250000000002, 237.82000000000002, 237.84750000000003, 237.87500000000003, 237.90250000000003, 237.93000000000004, 237.95750000000004, 237.98500000000004, 238.01250000000005, 238.04000000000002, 238.06750000000002, 238.09500000000003, 238.12250000000003, 238.15000000000003, 238.17750000000004, 238.20500000000004, 238.23250000000004, 238.26000000000005, 238.28750000000002, 238.31500000000003, 238.34250000000003, 238.37000000000003, 238.39750000000004, 238.42500000000004, 238.45250000000004, 238.48000000000002, 238.50750000000002, 238.53500000000003, 238.56250000000003, 238.59000000000003, 238.61750000000004, 238.64500000000004, 238.67250000000004, 238.70000000000005, 238.72750000000002, 238.75500000000002, 238.78250000000003, 238.81000000000003, 238.83750000000003, 238.86500000000004, 238.89250000000004, 238.92000000000004, 238.94750000000005, 238.97500000000002, 239.00250000000003, 239.03000000000003, 239.05750000000003, 239.08500000000004, 239.11250000000004, 239.14000000000004, 239.16750000000002, 239.19500000000002, 239.22250000000003, 239.25000000000003,

Description	Value
	239.27750000000003, 239.30500000000004, 239.33250000000004, 239.36000000000004, 239.38750000000005, 239.41500000000002, 239.44250000000002, 239.47000000000003, 239.49750000000003, 239.52500000000003, 239.55250000000004, 239.58000000000004, 239.60750000000004, 239.63500000000005, 239.66250000000002, 239.69000000000003, 239.71750000000003, 239.74500000000003, 239.77250000000004, 239.80000000000004, 239.82750000000004, 239.85500000000002, 239.88250000000002, 239.91000000000003, 239.93750000000003, 239.96500000000003, 239.99250000000004, 240.02000000000004, 240.04750000000004, 240.07500000000005, 240.10250000000002, 240.13000000000002, 240.15750000000003, 240.18500000000003, 240.21250000000003, 240.24000000000004, 240.26750000000004, 240.29500000000004, 240.32250000000005, 240.35000000000002, 240.37750000000003, 240.40500000000003, 240.43250000000003, 240.46000000000004, 240.48750000000004, 240.51500000000004, 240.54250000000002, 240.57000000000002, 240.59750000000003, 240.62500000000003, 240.65250000000003, 240.68000000000004, 240.70750000000004, 240.73500000000004, 240.76250000000005, 240.79000000000002, 240.81750000000002, 240.84500000000003, 240.87250000000003, 240.90000000000003, 240.92750000000004, 240.95500000000004, 240.98250000000004, 241.01000000000005, 241.03750000000002, 241.06500000000003, 241.09250000000003, 241.12000000000003, 241.14750000000004, 241.17500000000004, 241.20250000000004, 241.23000000000002, 241.25750000000005, 241.28500000000003, 241.31250000000003, 241.34000000000003, 241.36750000000004, 241.39500000000004, 241.42250000000004, 241.45000000000005, 241.47750000000002, 241.50500000000002, 241.53250000000003, 241.56000000000003, 241.58750000000003, 241.61500000000004, 241.64250000000004, 241.67000000000002, 241.69750000000005, 241.72500000000002, 241.75250000000003, 241.78000000000003, 241.80750000000003, 241.83500000000004, 241.86250000000004, 241.89000000000004, 241.91750000000002, 241.94500000000005, 241.97250000000003, 242.00000000000003}
Relative tolerance	0.005

TIME STEPPING

Description	Value
Maximum BDF order	2
Nonlinear controller	On

LOG

495	232.22	0.055	8	5	8	2	0	0	5e-13	1e-14
-	232.24	- out								
-	232.27	- out								
496	232.27	0.055	10	6	10	2	0	0	1.4e-13	8.3e-15
-	232.29	- out								
-	232.32	- out								
497	232.33	0.055	12	7	12	2	0	0	2.5e-13	7.8e-15
-	232.35	- out								
-	232.38	- out								
498	232.38	0.055	14	8	14	2	0	0	1.3e-13	7.7e-15
-	232.4	- out								
-	232.43	- out								
499	232.44	0.055	16	9	16	2	0	0	4.9e-13	8.5e-15
-	232.46	- out								
-	232.49	- out								
500	232.49	0.055	18	10	18	2	0	0	4e-14	8.4e-15
-	232.51	- out								
-	232.54	- out								
501	232.55	0.055	20	11	20	2	0	0	3.9e-13	8.3e-15
-	232.57	- out								
-	232.6	- out								
502	232.6	0.055	22	12	22	2	0	0	6e-14	8.4e-15
-	232.62	- out								
-	232.65	- out								
503	232.66	0.055	24	13	24	2	0	0	2.4e-13	8e-15
-	232.68	- out								
-	232.71	- out								
504	232.71	0.055	26	14	26	2	0	0	1.9e-13	1e-14
-	232.73	- out								
-	232.76	- out								
-	232.79	- out								
-	232.82	- out								
505	232.82	0.11	28	15	28	2	0	0	1.8e-13	6.3e-15
-	232.84	- out								
506	232.85	0.0275	33	17	33	2	1	0	8.5e-14	6e-15
-	232.87	- out								
-	232.9	- out								
507	232.9	0.055	35	18	35	2	1	0	2e-13	7e-15
508	232.92	0.01375	40	20	40	2	2	0	3.1e-14	4.2e-15
509	232.92	0.006875	44	22	44	2	3	0	1.5e-14	7.1e-15
-	232.93	- out								
510	232.93	0.0034375	48	24	48	2	4	0	1.3e-14	6.2e-15
511	232.93	0.0017188	53	26	53	2	5	0	1.2e-14	5.9e-15
512	232.93	0.00085938	58	28	58	2	6	0	9.5e-15	3.5e-15
513	232.93	0.0017188	59	29	59	2	6	0	3.1e-14	3.5e-15
514	232.93	0.00021484	69	32	69	2	8	0	5.4e-15	5.3e-16
515	232.93	0.00016701	74	34	74	2	9	0	2.2e-15	3.6e-16
516	232.93	6.116e-06	88	38	88	1	12	0	3.6e-16	3e-16
517	232.93	1.2232e-05	89	39	89	1	12	0	1.6e-16	1.1e-16
518	232.93	1.5775e-06	101	42	101	1	14	0	5.2e-16	5.7e-16
519	232.93	3.1549e-06	102	43	102	1	14	0	1.6e-16	1.7e-16
520	232.93	5.1659e-07	112	46	112	1	16	0	3e-16	2.1e-16
521	232.93	4.3053e-07	116	48	116	1	17	0	3.3e-16	3.6e-16
522	232.93	9.1749e-08	123	51	123	1	19	0	3e-16	2.8e-16
523	232.93	1.0374e-07	126	53	126	1	20	0	2.5e-16	2.4e-16
524	232.93	1.1457e-07	130	55	130	1	21	0	2.3e-15	8e-16

525	232.93	8.9759e-08	132	56	132	1	21	0	1e-14	1.1e-14
526	232.93	8.9759e-08	134	57	134	1	21	0	1.9e-14	1.9e-14
527	232.93	8.9759e-08	136	58	136	1	21	0	3.3e-14	3.4e-14
528	232.93	1.7952e-07	138	59	138	1	21	0	2.3e-14	2e-14
529	232.93	1.7952e-07	140	60	140	1	21	0	1.3e-14	9.5e-15
530	232.93	3.5904e-07	142	61	142	1	21	0	3.5e-15	1.7e-15
531	232.93	3.5904e-07	144	62	144	1	21	0	4.6e-15	2.2e-15
532	232.93	7.1807e-07	146	63	146	1	21	0	3.9e-15	1.6e-15
533	232.93	1.4361e-06	148	64	148	1	21	0	3.4e-15	1.3e-15
534	232.93	1.4361e-06	150	65	150	1	21	0	3.1e-15	1.6e-15
535	232.93	2.8723e-06	152	66	152	1	21	0	4.9e-15	3.1e-15
536	232.93	2.8723e-06	154	67	154	1	21	0	7.3e-15	4.2e-15
537	232.93	5.7446e-06	156	68	156	1	21	0	4.2e-15	1.3e-15
538	232.93	5.7446e-06	158	69	158	1	21	0	6.7e-15	1.7e-15
539	232.93	5.7446e-06	160	70	160	1	21	0	4.5e-15	3.1e-15
540	232.93	1.1489e-05	162	71	162	2	21	0	4.6e-15	2e-15
541	232.93	1.1489e-05	164	72	164	2	21	0	4e-15	2.5e-15
542	232.93	2.2978e-05	166	73	166	2	21	0	5.2e-15	6.1e-15
543	232.93	2.068e-05	168	74	168	2	21	0	2.4e-15	1e-15
544	232.93	2.068e-05	170	75	170	2	21	0	2.8e-15	3.7e-15
545	232.93	2.068e-05	172	76	172	2	21	0	2.5e-15	3.7e-15
546	232.93	2.068e-05	174	77	174	2	21	0	1.9e-15	2.4e-15
547	232.93	4.1361e-05	176	78	176	2	21	0	1.6e-15	1.6e-15
548	232.93	4.1361e-05	178	79	178	2	21	0	2.1e-15	1.6e-15
549	232.93	4.1361e-05	180	80	180	2	21	0	1.5e-15	1.2e-15
550	232.93	4.1361e-05	182	81	182	2	21	0	1.8e-15	1.4e-15
551	232.93	8.2722e-05	184	82	184	2	21	0	2e-15	1.8e-15
552	232.93	8.2722e-05	186	83	186	2	21	0	1.7e-15	2.5e-15
553	232.93	8.2722e-05	188	84	188	2	21	0	1.7e-15	2.4e-15
554	232.93	8.2722e-05	190	85	190	2	21	0	1.7e-15	2.6e-15
555	232.93	8.2722e-05	192	86	192	2	21	0	1.5e-15	2.3e-15
556	232.93	0.00016544	194	87	194	2	21	0	2.7e-15	4.9e-15
557	232.93	0.00016544	196	88	196	2	21	0	3.4e-15	1.2e-14
558	232.93	0.00016544	198	89	198	2	21	0	2e-15	1.2e-14
559	232.93	0.00016544	200	90	200	2	21	0	3.4e-15	1.1e-14
560	232.93	0.00016544	202	91	202	2	21	0	5.8e-15	6e-15
561	232.93	0.00033089	204	92	204	2	21	0	6.8e-15	1.2e-14
562	232.94	0.00033089	206	93	206	2	21	0	7.2e-15	1.2e-14
563	232.94	0.00033089	208	94	208	2	21	0	3.6e-15	9.8e-15
564	232.94	0.00033089	210	95	210	2	21	0	6.7e-15	9.7e-15
565	232.94	0.00033089	212	96	212	2	21	0	3.9e-15	7.7e-15
566	232.94	0.00033089	214	97	214	2	21	0	2.8e-15	7.2e-15
567	232.94	0.00066177	216	98	216	2	21	0	7.6e-15	1.1e-14
568	232.94	0.00066177	218	99	218	2	21	0	5.1e-15	9.7e-15
569	232.94	0.00066177	220	100	220	2	21	0	3.7e-15	1.1e-14
570	232.94	0.00066177	222	101	222	2	21	0	7.4e-15	1.1e-14
571	232.94	0.00066177	224	102	224	2	21	0	7.9e-15	1e-14
572	232.94	0.0013235	226	103	226	2	21	0	6.3e-15	1.8e-14
573	232.94	0.0013235	228	104	228	2	21	0	6.4e-15	1.5e-14
574	232.94	0.0013235	230	105	230	2	21	0	6.6e-15	1.6e-14
575	232.95	0.0013235	232	106	232	2	21	0	7e-15	1.7e-14
576	232.95	0.0013235	234	107	234	2	21	0	7.9e-15	1.6e-14
577	232.95	0.0013235	236	108	236	2	21	0	6e-15	1.6e-14
578	232.95	0.0026471	238	109	238	2	21	0	8.1e-15	2.8e-14
-	232.95	- out								
579	232.95	0.0026471	240	110	240	2	21	0	8.2e-15	2.4e-14

580	232.96	0.0026471	242	111	242	2	21	0	8.5e-15	2.9e-14
581	232.96	0.0026471	244	112	244	2	21	0	4e-15	2.9e-14
582	232.96	0.0026471	246	113	246	2	21	0	1.1e-14	3.1e-14
583	232.96	0.0026471	248	114	248	2	21	0	8.4e-15	2.9e-14
584	232.97	0.0026471	250	115	250	2	21	0	7.3e-15	2.7e-14
585	232.97	0.0026471	252	116	252	2	21	0	5.3e-15	2.6e-14
586	232.97	0.0026471	254	117	254	2	21	0	6.1e-15	2.3e-14
587	232.97	0.0026471	256	118	256	2	21	0	6.7e-15	2.4e-14
588	232.98	0.0026471	258	119	258	2	21	0	5.3e-15	2.5e-14
589	232.98	0.0026471	260	120	260	2	21	0	6.7e-15	2.6e-14
-	232.98	-	out							
590	232.98	0.0026471	262	121	262	2	21	0	7.1e-15	2.7e-14
591	232.98	0.0026471	264	122	264	2	21	0	5.5e-15	2.7e-14
592	232.99	0.0052942	266	123	266	2	21	0	6.2e-15	4.3e-14
593	233	0.0052942	268	124	268	2	21	0	8.5e-15	3.2e-14
594	233	0.0052942	270	125	270	2	21	0	9.7e-15	3.4e-14
595	233.01	0.0052942	272	126	272	2	21	0	9.7e-15	2.5e-14
-	233.01	-	out							
596	233.01	0.0052942	274	127	274	2	21	0	8.1e-15	1.7e-14
597	233.02	0.0052942	276	128	276	2	21	0	5.4e-15	1.9e-14
598	233.03	0.010588	278	129	278	2	21	0	2.3e-14	1.5e-14
-	233.04	-	out							
599	233.04	0.010588	280	130	280	2	21	0	2.3e-14	5.2e-15
600	233.06	0.021177	282	131	282	2	21	0	2e-14	4.4e-15
-	233.06	-	out							
601	233.08	0.021177	284	132	284	2	21	0	4.2e-13	3.7e-15
-	233.09	-	out							
602	233.1	0.021177	286	133	286	2	21	0	1e-13	5.2e-15
-	233.12	-	out							
603	233.12	0.021177	288	134	288	2	21	0	2e-13	7.5e-15
604	233.14	0.021177	290	135	290	2	21	0	5.7e-13	1.9e-14
-	233.15	-	out							
605	233.16	0.021177	292	136	292	2	21	0	3.6e-14	1.4e-14
-	233.17	-	out							
606	233.19	0.021177	294	137	294	2	21	0	4.6e-12	2.7e-14
-	233.2	-	out							
607	233.21	0.021177	296	138	296	2	21	0	6.5e-13	1.3e-14
-	233.23	-	out							
608	233.23	0.021177	298	139	298	2	21	0	1e-12	2.5e-14
609	233.25	0.021177	300	140	300	2	21	0	6.8e-13	4.7e-14
-	233.26	-	out							
610	233.27	0.021177	302	141	302	2	21	0	1.6e-13	5e-14
-	233.28	-	out							
611	233.29	0.021177	304	142	304	2	21	0	3.9e-13	4.2e-14
-	233.31	-	out							
612	233.31	0.021177	306	143	306	2	21	0	4.7e-13	3.3e-14
613	233.33	0.021177	308	144	308	2	21	0	8.1e-14	2.8e-14
-	233.34	-	out							
614	233.36	0.021177	310	145	310	2	21	0	1.4e-12	3.4e-14
-	233.37	-	out							
615	233.38	0.021177	312	146	312	2	21	0	4.6e-13	3.6e-14
-	233.39	-	out							
616	233.4	0.021177	314	147	314	2	21	0	2.3e-13	2.1e-14
617	233.42	0.021177	316	148	316	2	21	0	1.7e-13	2.6e-14
-	233.42	-	out							
618	233.44	0.021177	318	149	318	2	21	0	8.6e-13	2.9e-14

-	233.45	- out									
619	233.46	0.021177	320	150	320	2	21	0	9.6e-13	4.1e-14	
-	233.48	- out									
620	233.48	0.021177	322	151	322	2	21	0	4.1e-13	5.4e-14	
-	233.5	- out									
621	233.5	0.021177	324	152	324	2	21	0	1.7e-12	2.6e-14	
622	233.52	0.021177	326	153	326	2	21	0	1.6e-13	3.8e-14	
-	233.53	- out									
623	233.55	0.021177	328	154	328	2	21	0	3.1e-13	3.2e-14	
-	233.56	- out									
624	233.57	0.021177	330	155	330	2	21	0	1.1e-12	2.7e-14	
-	233.59	- out									
625	233.59	0.021177	332	156	332	2	21	0	1.3e-12	2.2e-14	
626	233.61	0.021177	334	157	334	2	21	0	1.1e-12	2e-14	
-	233.61	- out									
627	233.63	0.021177	336	158	336	2	21	0	6.4e-13	1.6e-14	
-	233.64	- out									
628	233.65	0.021177	338	159	338	2	21	0	1.3e-12	1.5e-14	
-	233.67	- out									
629	233.67	0.021177	340	160	340	2	21	0	4.7e-12	1.2e-14	
630	233.69	0.021177	342	161	342	2	21	0	1.8e-12	9.8e-15	
-	233.7	- out									
631	233.72	0.021177	344	162	344	2	21	0	8.6e-13	6.8e-15	
-	233.72	- out									
632	233.74	0.021177	346	163	346	2	21	0	8.2e-12	9.3e-15	
633	233.75	0.011194	350	165	350	2	22	0	6.1e-13	2.8e-15	
-	233.75	- out									
634	233.75	0.0069539	354	167	354	2	23	0	1.4e-12	3e-15	
635	233.76	0.0062585	356	168	356	2	23	0	1.2e-12	2.3e-15	
636	233.77	0.0062585	358	169	358	2	23	0	8.6e-13	1.9e-15	
637	233.77	0.0056327	360	170	360	2	23	0	2.8e-14	2.5e-14	
-	233.78	- out									
638	233.78	0.0056327	362	171	362	2	23	0	1.5e-14	1.9e-14	
639	233.78	0.0056327	364	172	364	2	23	0	2.5e-14	1.3e-14	
640	233.8	0.011265	366	173	366	2	23	0	1.8e-13	1.4e-14	
-	233.81	- out									
641	233.81	0.011265	368	174	368	2	23	0	7.5e-13	9.5e-15	
642	233.83	0.022531	370	175	370	2	23	0	3.2e-12	1.7e-14	
-	233.83	- out									
643	233.85	0.022531	372	176	372	2	23	0	9.3e-13	1.4e-14	

Number of vertex elements: 3
 Number of boundary elements: 112
 Number of vertex elements: 3
 Number of boundary elements: 112
 Number of elements: 534
 Minimum element quality: 0.5661
 Number of vertex elements: 4
 Number of boundary elements: 162
 Number of vertex elements: 5
 Number of boundary elements: 212
 Number of vertex elements: 6
 Number of boundary elements: 266
 Minimum element quality: 0.5535
 Geometry shape function: Linear Lagrange
 Time interval 9
 Time-dependent solver (BDF)

Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).

Nonsymmetric matrix found.

Scales for dependent variables:

Concentration (compl.cOx): 2.8

Concentration (compl.cRed): 5.1

Spatial mesh displacement (compl.spatial.disp): 6.9e-08

Step	Time	Stepsize	Res	Jac	Sol	Order	Tfail	NLfail	LinErr	LinRes
-	233.83	- out								
-	233.83	- out								
644	233.85	0.022531	2	2	2	1	0	0	7.1e-13	8.3e-16
-	233.86	- out								
645	233.87	0.022531	4	3	4	1	0	0	2.1e-12	1e-14
-	233.89	- out								
-	233.92	- out								
646	233.92	0.045061	6	4	6	2	0	0	4.6e-13	1.5e-14
-	233.94	- out								
647	233.96	0.045061	8	5	8	2	0	0	7.6e-12	1.6e-14
-	233.97	- out								
-	234	- out								
648	234.01	0.045061	10	6	10	2	0	0	1.6e-11	4.3e-14
-	234.03	- out								
-	234.05	- out								
649	234.05	0.045061	12	7	12	2	0	0	7.3e-13	3e-14
-	234.08	- out								
650	234.1	0.045061	14	8	14	2	0	0	5.7e-12	3.5e-14
-	234.11	- out								
-	234.14	- out								
651	234.14	0.040555	16	9	16	2	0	0	7e-13	1.9e-14
-	234.16	- out								
652	234.18	0.0365	18	10	18	2	0	0	3.3e-13	2.5e-14
-	234.19	- out								
653	234.21	0.0365	20	11	20	2	0	0	3e-13	3.1e-14
-	234.22	- out								
-	234.25	- out								
654	234.25	0.03285	22	12	22	2	0	0	6.8e-12	3.7e-14
-	234.27	- out								
655	234.28	0.03285	24	13	24	2	0	0	9.5e-13	4.9e-14
-	234.3	- out								
656	234.31	0.03285	26	14	26	2	0	0	2.7e-12	5e-14
-	234.33	- out								
657	234.34	0.03285	28	15	28	2	0	0	1.9e-12	3.2e-14
-	234.36	- out								
658	234.38	0.03285	30	16	30	2	0	0	1.6e-12	6e-14
-	234.38	- out								
-	234.41	- out								
659	234.41	0.03285	32	17	32	2	0	0	2.3e-12	4.8e-14
-	234.44	- out								
660	234.44	0.03285	34	18	34	2	0	0	1.2e-12	4e-14
-	234.47	- out								
661	234.48	0.03285	36	19	36	2	0	0	2.1e-13	2.3e-14
-	234.49	- out								
662	234.51	0.03285	38	20	38	2	0	0	4.3e-12	9.6e-15
-	234.52	- out								
663	234.54	0.03285	40	21	40	2	0	0	1.5e-12	9.8e-15
-	234.55	- out								
664	234.57	0.03285	42	22	42	2	0	0	3.8e-13	6.4e-15

-	234.58	- out									
-	234.6	- out									
665	234.61	0.03285	44	23	44	2	0	0	9.9e-13	4.7e-15	
-	234.63	- out									
666	234.64	0.03285	46	24	46	2	0	0	4.1e-13	4.7e-15	
-	234.66	- out									
667	234.67	0.03285	48	25	48	2	0	0	3.9e-13	4.2e-15	
-	234.69	- out									
668	234.71	0.03285	50	26	50	2	0	0	1.1e-13	5.7e-15	
-	234.71	- out									
669	234.74	0.03285	52	27	52	2	0	0	5.8e-14	6.3e-15	
-	234.74	- out									
-	234.77	- out									
670	234.77	0.03285	54	28	54	2	0	0	7.5e-13	9.6e-15	
-	234.8	- out									
671	234.8	0.03285	56	29	56	2	0	0	1.3e-13	6.9e-15	
-	234.82	- out									
672	234.84	0.03285	58	30	58	2	0	0	1e-13	8.4e-15	
-	234.85	- out									
673	234.87	0.03285	60	31	60	2	0	0	4.8e-14	1.1e-14	
-	234.88	- out									
-	234.91	- out									
-	234.93	- out									
674	234.94	0.0657	62	32	62	2	0	0	7.3e-14	9.4e-15	
-	234.96	- out									
-	234.99	- out									
675	235	0.0657	64	33	64	2	0	0	3.5e-13	1.2e-14	
-	235.02	- out									
676	235.02	0.014872	71	35	71	2	1	0	6e-14	9.6e-15	
677	235.02	0.0018589	82	38	82	2	3	0	1.5e-14	1.7e-14	
678	235.02	0.0037179	83	39	83	2	3	0	2.6e-14	3.1e-14	
679	235.02	0.00011618	98	43	98	1	6	0	4.1e-15	2.6e-15	
680	235.02	0.00023237	99	44	99	1	6	0	2.2e-14	1.7e-15	
681	235.02	2.9046e-05	115	47	115	1	8	0	2.8e-14	1.4e-14	
682	235.02	9.878e-06	120	49	120	1	9	0	3.2e-14	2.1e-14	
683	235.02	9.878e-06	122	50	122	1	9	0	4.7e-15	8.1e-16	
684	235.02	9.878e-06	124	51	124	1	9	0	3.2e-15	6.1e-16	
685	235.02	9.878e-06	126	52	126	1	9	0	2.2e-15	6.6e-16	
686	235.02	1.9756e-05	128	53	128	2	9	0	4e-15	6.4e-16	
687	235.02	1.9756e-05	130	54	130	2	9	0	3.3e-15	1e-15	
688	235.02	3.9512e-05	132	55	132	2	9	0	2.9e-15	7.1e-16	
689	235.02	3.9512e-05	134	56	134	2	9	0	2.4e-15	7e-16	
690	235.02	3.9512e-05	136	57	136	2	9	0	3e-15	1.3e-15	
691	235.02	3.9512e-05	138	58	138	2	9	0	2e-15	8.9e-16	
692	235.02	3.9512e-05	140	59	140	2	9	0	2e-15	9.2e-16	
693	235.02	7.9024e-05	142	60	142	2	9	0	2.9e-15	1.5e-15	
694	235.02	7.9024e-05	144	61	144	2	9	0	1.8e-15	1.4e-15	
695	235.02	7.9024e-05	146	62	146	2	9	0	2.3e-15	1.3e-15	
696	235.02	7.9024e-05	148	63	148	2	9	0	2e-15	1.3e-15	
697	235.02	0.00015805	150	64	150	2	9	0	3.1e-15	2.2e-15	
698	235.02	0.00015805	152	65	152	2	9	0	2.9e-15	2.7e-15	
699	235.02	0.00015805	154	66	154	2	9	0	3.2e-15	2.6e-15	
700	235.02	0.00015805	156	67	156	2	9	0	8.6e-15	2.9e-15	
701	235.02	0.00015805	158	68	158	2	9	0	9.2e-15	3.5e-15	
702	235.02	0.0003161	160	69	160	2	9	0	1.1e-14	5.5e-15	
703	235.02	0.0003161	162	70	162	2	9	0	4.7e-15	6.4e-15	

704	235.02	0.0003161	164	71	164	2	9	0	6.8e-15	6.7e-15
705	235.03	0.0003161	166	72	166	2	9	0	5e-15	7.3e-15
706	235.03	0.0003161	168	73	168	2	9	0	4.2e-15	7.5e-15
707	235.03	0.0003161	170	74	170	2	9	0	3.6e-15	7.4e-15
708	235.03	0.0006322	172	75	172	2	9	0	5.8e-15	1.3e-14
709	235.03	0.0006322	174	76	174	2	9	0	1.2e-14	1.2e-14
710	235.03	0.0006322	176	77	176	2	9	0	5.3e-15	1.3e-14
711	235.03	0.0006322	178	78	178	2	9	0	9.4e-15	1.3e-14
712	235.03	0.0006322	180	79	180	2	9	0	5.3e-15	1.3e-14
713	235.03	0.0012644	182	80	182	2	9	0	1.4e-14	2.1e-14
714	235.03	0.0012644	184	81	184	2	9	0	1.1e-14	2.2e-14
715	235.03	0.0012644	186	82	186	2	9	0	1.4e-14	2.2e-14
716	235.03	0.0012644	188	83	188	2	9	0	7.8e-15	2.1e-14
717	235.04	0.0012644	190	84	190	2	9	0	1.1e-14	2.1e-14
718	235.04	0.0012644	192	85	192	2	9	0	6.9e-15	2.2e-14
719	235.04	0.0025288	194	86	194	2	9	0	6.7e-15	3.8e-14
720	235.04	0.0025288	196	87	196	2	9	0	6.9e-15	3.4e-14
-	235.04	- out								
721	235.04	0.0025288	198	88	198	2	9	0	8e-15	3.4e-14
722	235.05	0.0025288	200	89	200	2	9	0	8.6e-15	3.2e-14
723	235.05	0.0025288	202	90	202	2	9	0	9.1e-15	3e-14
724	235.05	0.0025288	204	91	204	2	9	0	7.8e-15	2.9e-14
725	235.05	0.0025288	206	92	206	2	9	0	8.5e-15	2.9e-14
726	235.06	0.0025288	208	93	208	2	9	0	1e-14	2.8e-14
727	235.06	0.0050576	210	94	210	2	9	0	9.9e-15	4.7e-14
728	235.07	0.0050576	212	95	212	2	9	0	9.2e-15	4.7e-14
-	235.07	- out								
729	235.07	0.0050576	214	96	214	2	9	0	8.8e-15	4.6e-14
730	235.08	0.0050576	216	97	216	2	9	0	1.1e-14	5e-14
731	235.08	0.0050576	218	98	218	2	9	0	1.4e-14	4.9e-14
732	235.09	0.010115	220	99	220	2	9	0	4e-14	7.1e-14
-	235.1	- out								
733	235.11	0.02023	222	100	222	1	9	0	6e-14	1.7e-14
-	235.13	- out								
734	235.13	0.02023	224	101	224	1	9	0	8.2e-14	1.2e-14
-	235.15	- out								
735	235.15	0.02023	226	102	226	1	9	0	1e-13	1.2e-14
-	235.18	- out								
736	235.19	0.04046	228	103	228	2	9	0	2.1e-13	1.4e-14
-	235.21	- out								
737	235.23	0.04046	230	104	230	2	9	0	3.7e-13	7.5e-15
-	235.24	- out								
-	235.26	- out								
-	235.29	- out								
738	235.31	0.080921	232	105	232	2	9	0	7.5e-13	1.4e-14
-	235.32	- out								
-	235.35	- out								
-	235.37	- out								
739	235.38	0.067264	234	106	234	2	9	0	1.6e-13	1.3e-14
-	235.4	- out								
-	235.43	- out								
740	235.45	0.067264	236	107	236	2	9	0	3.7e-13	1.3e-14
-	235.46	- out								
-	235.48	- out								
741	235.51	0.060538	238	108	238	2	9	0	1.1e-12	1.3e-14
-	235.51	- out								

```

-      235.54      - out
-      235.57      - out
742    235.57    0.060538    240  109  240    2    9    0  1.4e-12  1.3e-14
-      235.59      - out
-      235.62      - out
743    235.63    0.060538    242  110  242    2    9    0  2.6e-13  1.3e-14
-      235.65      - out
-      235.68      - out
744    235.69    0.060538    244  111  244    2    9    0  1.2e-13  1.3e-14
-      235.69      - out
745    235.75    0.060538    246  112  246    2    9    0  1.5e-12  1.3e-14
Number of vertex elements: 3
Number of boundary elements: 112
Number of vertex elements: 3
Number of boundary elements: 112
Number of elements: 534
Minimum element quality: 0.5661
Number of vertex elements: 4
Number of boundary elements: 162
Number of vertex elements: 5
Number of boundary elements: 212
Number of vertex elements: 6
Number of boundary elements: 266
Minimum element quality: 0.5661
Geometry shape function: Linear Lagrange
Time interval 10
Time-dependent solver (BDF)
Number of degrees of freedom solved for: 11758 (plus 7124 internal DOFs).
Nonsymmetric matrix found.
Scales for dependent variables:
Concentration (compl.cOx): 3.9
Concentration (compl.cRed): 2.1
Spatial mesh displacement (compl.spatial.disp): 6.9e-08
Step      Time      Stepsize      Res  Jac  Sol Order Tfail NLfail  LinErr  LinRes
-      235.69      - out
-      235.7      - out
746    235.72    0.0275        2   2   2   1   0   0  9.7e-14  4.8e-15
-      235.73      - out
747    235.75    0.0275        4   3   4   1   0   0  2.6e-12  6.4e-15
-      235.76      - out
-      235.79      - out
748    235.8      0.055         6   4   6   2   0   0  1.2e-11  3.6e-15
-      235.81      - out
-      235.84      - out
749    235.86    0.055         8   5   8   2   0   0  4.5e-13  7.1e-15
-      235.87      - out
-      235.9      - out
750    235.91    0.055        10   6  10   2   0   0  3.2e-12   9e-15
-      235.92      - out
-      235.95      - out
751    235.97    0.055        12   7  12   2   0   0  1.1e-12  8.8e-15
-      235.98      - out
-      236.01      - out
752    236.02    0.055        14   8  14   2   0   0  2.9e-13  8.7e-15
-      236.03      - out
-      236.06      - out

```

753	236.08	0.055	16	9	16	2	0	0	2.5e-12	8.3e-15
-	236.09	- out								
-	236.12	- out								
754	236.13	0.055	18	10	18	2	0	0	3.8e-12	8.9e-15
-	236.14	- out								
-	236.17	- out								
755	236.19	0.055	20	11	20	2	0	0	4.1e-12	9.1e-15
-	236.2	- out								
-	236.23	- out								
756	236.24	0.055	22	12	22	2	0	0	2.7e-12	8.3e-15
-	236.25	- out								
-	236.28	- out								
757	236.3	0.055	24	13	24	2	0	0	2.3e-12	8.8e-15
-	236.31	- out								
-	236.34	- out								
758	236.35	0.055	26	14	26	2	0	0	3.7e-12	1.1e-14
-	236.36	- out								
-	236.39	- out								
759	236.41	0.055	28	15	28	2	0	0	8.3e-12	9.2e-15
-	236.42	- out								
-	236.45	- out								
760	236.46	0.055	30	16	30	2	0	0	1.2e-11	9.8e-15
-	236.47	- out								
761	236.49	0.027981	34	18	34	2	1	0	1.7e-12	8.6e-15
-	236.5	- out								
762	236.51	0.016064	39	20	39	2	2	0	4.5e-12	6.4e-15

Time-stepping completed.

Geometry shape function: Linear Lagrange

Solution time: 1033 s. (17 minutes, 13 seconds)

Physical memory: 2.51 GB

Virtual memory: 2.62 GB

Ended at May 31, 2023 9:50:38 PM.

----- Time-Dependent Solver 1 in Study 5 (CV 39 to 43)/Solution 10 (sol10) ---->

Advanced (aDef)

ASSEMBLY SETTINGS

Description	Value
Reuse sparsity pattern	On

Fully Coupled 1 (fc1)

GENERAL

Description	Value
Linear solver	Direct 1

METHOD AND TERMINATION

Description	Value
Damping factor	0.9
Jacobian update	Once per time step
Maximum number of iterations	8

Description	Value
Stabilization and acceleration	Anderson acceleration
Dimension of iteration space	5

Automatic Remeshing 1 (ar1)

GENERAL

Description	Value
Remesh in geometry	Geometry 1

CONDITION FOR REMESHING

Description	Value
Condition type	Distortion
Stop when distortion exceeds	1.2

OUTPUT

Description	Value
Solution	Remeshed Solution 5
Meshes	{mesh11, mesh12, mesh13, mesh14, mesh15, mesh16, mesh17, mesh18, mesh19}

8 Results

8.1 DATASETS

8.1.1 No Solution

SOLUTION

Description	Value
Component	Component 1 (comp1)

8.1.2 Revolution 2D 2

DATA

Description	Value
Dataset	No Solution

AXIS DATA

Description	Value
Axis entry method	Two points
Points	{{0, 0}, {0, 1}}

REVOLUTION LAYERS

Description	Value
Start angle	-90
Revolution angle	225

8.1.3 Grid 1D 1

DATA

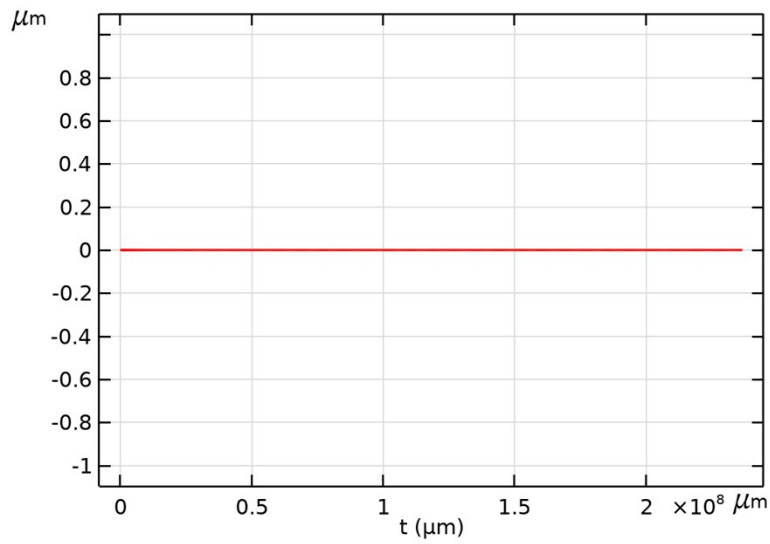
Description	Value
Function	All
Refresh	

PARAMETER BOUNDS

Description	Value
Name	t
Minimum	0
Maximum	236.50000000000003

RESOLUTION

Description	Value
Resolution	10000

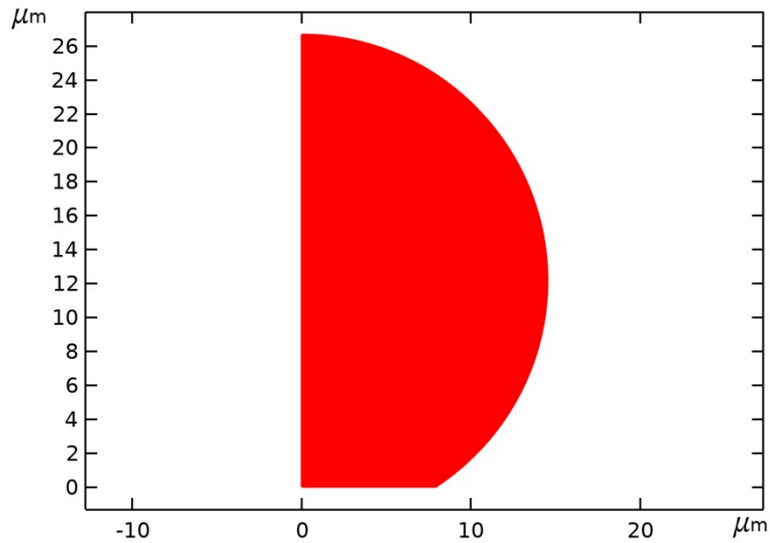


Dataset: Grid 1D 1

8.1.4 Study 1 (CV 1 to 39)/Solution 1

SOLUTION

Description	Value
Solution	Solution 1
Component	Component 1 (comp1)

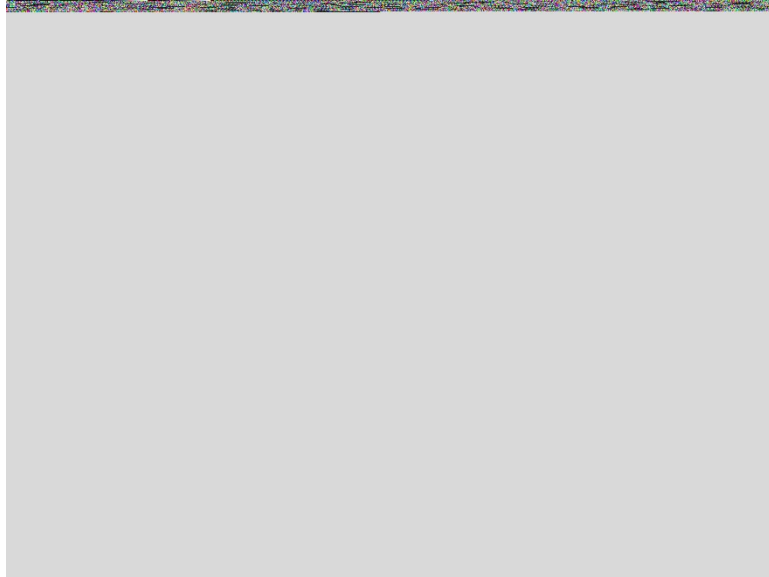


Dataset: Study 1 (CV 1 to 39)/Solution 1

8.1.5 Study 1 (CV 1 to 39)/Remeshed Solution 1

SOLUTION

Description	Value
Solution	Remeshed Solution 1
Component	Component 1 (comp1)

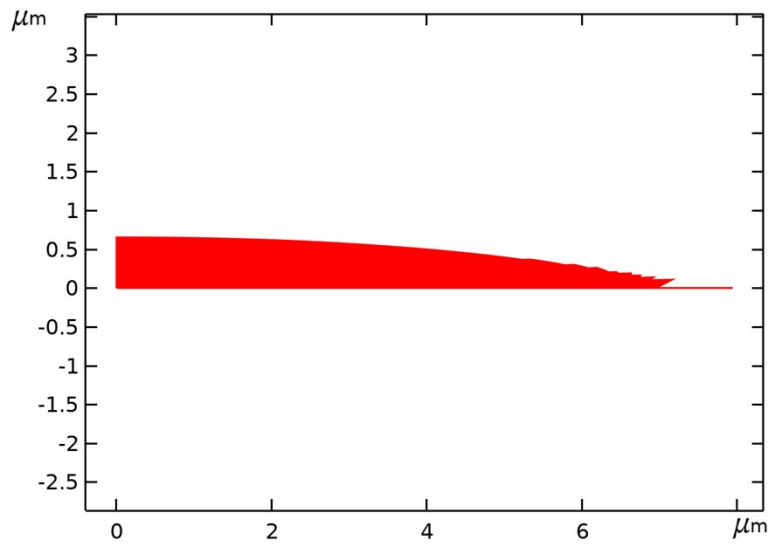


Dataset: Study 1 (CV 1 to 39)/Remeshed Solution 1

8.1.6 Study 2 (CV 40 to 44)/Solution 4

SOLUTION

Description	Value
Solution	Solution 4
Component	Component 1 (comp1)

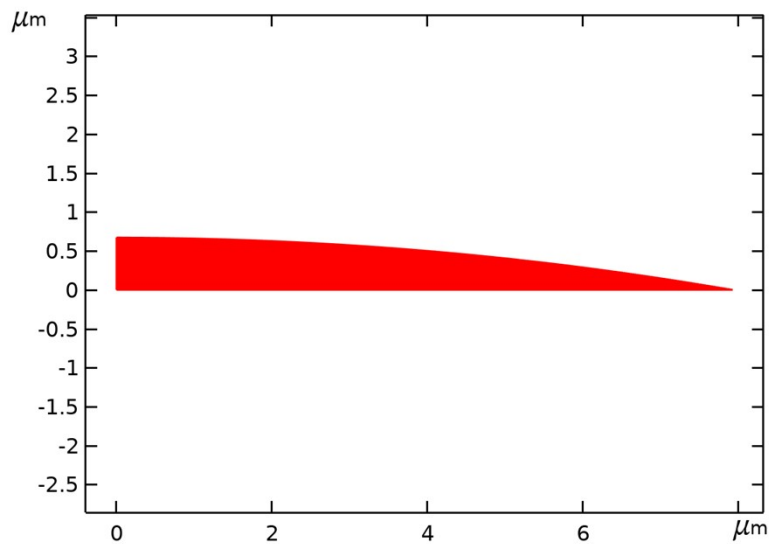


Dataset: Study 2 (CV 40 to 44)/Solution 4

8.1.7 Study 2 (CV 40 to 44)/Remeshed Solution 2

SOLUTION

Description	Value
Solution	Remeshed Solution 2
Component	Component 1 (comp1)



Dataset: Study 2 (CV 40 to 44)/Remeshed Solution 2

8.1.8 Revolution 2D 3

DATA

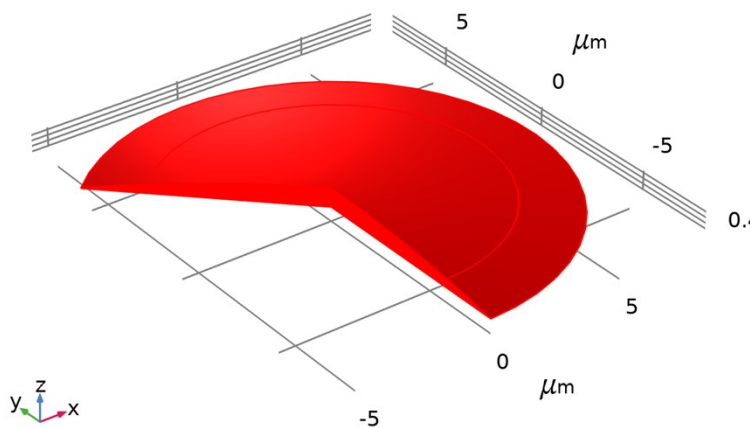
Description	Value
Dataset	Study 2 (CV 40 to 44)/Remeshed Solution 2

AXIS DATA

Description	Value
Axis entry method	Two points
Points	{{0, 0}, {0, 1}}

REVOLUTION LAYERS

Description	Value
Start angle	-90
Revolution angle	225



Dataset: Revolution 2D 3

8.1.9 Study 3 (CV 21 to 30)/Solution 6

SOLUTION

Description	Value
Solution	Solution 6
Component	Component 1 (comp1)
Geometry	Geometry 1

8.1.10 Revolution 2D 4

DATA

Description	Value
-------------	-------

Description	Value
Dataset	Study 3 (CV 21 to 30)/Solution 6

AXIS DATA

Description	Value
Axis entry method	Two points
Points	{{0, 0}, {0, 1}}

REVOLUTION LAYERS

Description	Value
Start angle	-90
Revolution angle	225

8.1.11 Study 3 (CV 21 to 30)/Remeshed Solution 3

SOLUTION

Description	Value
Solution	Remeshed Solution 3
Component	Component 1 (comp1)
Geometry	Geometry 1

8.1.12 Revolution 2D 5

DATA

Description	Value
Dataset	Study 3 (CV 21 to 30)/Remeshed Solution 3

AXIS DATA

Description	Value
Axis entry method	Two points
Points	{{0, 0}, {0, 1}}

REVOLUTION LAYERS

Description	Value
Start angle	-90
Revolution angle	225

8.1.13 Study 4 (CV 31 to 38)/Solution 8

SOLUTION

Description	Value
-------------	-------

Description	Value
Solution	Solution 8
Component	Component 1 (comp1)
Geometry	Geometry 1

8.1.14 Revolution 2D 6

DATA

Description	Value
Dataset	Study 4 (CV 31 to 38)/Solution 8

AXIS DATA

Description	Value
Axis entry method	Two points
Points	{{0, 0}, {0, 1}}

REVOLUTION LAYERS

Description	Value
Start angle	-90
Revolution angle	225

8.1.15 Study 4 (CV 31 to 38)/Remeshed Solution 4

SOLUTION

Description	Value
Solution	Remeshed Solution 4
Component	Component 1 (comp1)
Geometry	Geometry 1

8.1.16 Revolution 2D 7

DATA

Description	Value
Dataset	Study 4 (CV 31 to 38)/Remeshed Solution 4

AXIS DATA

Description	Value
Axis entry method	Two points
Points	{{0, 0}, {0, 1}}

REVOLUTION LAYERS

Description	Value
Start angle	-90
Revolution angle	225

8.1.17 Study 5 (CV 39 to 44)/Solution 10

SOLUTION

Description	Value
Solution	Solution 10
Component	Component 1 (comp1)
Geometry	Geometry 1

8.1.18 Study 5 (CV 39 to 44)/Remeshed Solution 5

SOLUTION

Description	Value
Solution	Remeshed Solution 5
Component	Component 1 (comp1)
Geometry	Geometry 1

8.2 DERIVED VALUES

8.2.1 Global Evaluation 1

OUTPUT

Evaluated in	Table 43
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DATA

Description	Value
Dataset	Study 1 (CV 1 to 39)/Solution 1

EXPRESSIONS

Expression	Unit	Description
n _{Ox} +n _{Red}	mol	

8.3 TABLES

8.3.1 CV-1

E (V)	i (nA)
-0.34800	0.13920
-0.34300	-0.043410

E (V)	i (nA)
-0.33800	-0.0079200
-0.33300	-0.0031500
-0.32800	0.0038200
-0.32300	0.012560
-0.31800	-0.0026300
-0.31300	0.010290
-0.30800	0.0071100
-0.30300	0.013600
-0.29800	0.0063000
-0.29300	0.0088100
-0.28800	0.010100
-0.28300	0.011650
-0.27800	0.013050
-0.27300	0.011560
-0.26800	0.013620
-0.26300	0.011430
-0.25800	0.011560
-0.25300	0.0093300
-0.24800	0.012660
-0.24300	0.012520
-0.23800	0.011330
-0.23300	0.010720
-0.22800	0.012060
-0.22300	0.012680
-0.21800	0.011400
-0.21300	0.013380
-0.20800	0.014950
-0.20300	0.015550
-0.19800	0.014290
-0.19300	0.014580
-0.18800	0.014940
-0.18300	0.014850
-0.17800	0.012700
-0.17300	0.012360
-0.16800	0.013630

E (V)	i (nA)
-0.16300	0.013430
-0.15800	0.013050
-0.15300	0.013040
-0.14800	0.013750
-0.14300	0.013480
-0.13800	0.012220
-0.13300	0.012050
-0.12800	0.013540
-0.12300	0.013620
-0.11800	0.012920
-0.11300	0.012810
-0.10800	0.014730
-0.10300	0.014850
-0.098000	0.012530
-0.093000	0.012060
-0.088000	0.013520
-0.083000	0.013000
-0.078000	0.011720
-0.073000	0.012330
-0.068000	0.013770
-0.063000	0.013460
-0.058000	0.010180
-0.053000	0.0094300
-0.048000	0.011300
-0.043000	0.013400
-0.038000	0.012050
-0.033000	0.011570
-0.028000	0.012810
-0.023000	0.013460
-0.018000	0.012630
-0.013000	0.012090
-0.0080000	0.014450
-0.0030000	0.014220
0.0020000	0.013110
0.0070000	0.012520

E (V)	i (nA)
0.012000	0.014870
0.017000	0.014610
0.022000	0.013350
0.027000	0.013590
0.032000	0.014880
0.037000	0.014890
0.042000	0.013140
0.047000	0.013880
0.052000	0.014270
0.057000	0.015250
0.062000	0.012830
0.067000	0.013580
0.072000	0.014650
0.077000	0.015180
0.082000	0.013160
0.087000	0.013660
0.092000	0.016040
0.097000	0.015160
0.10200	0.014640
0.10700	0.012450
0.11200	0.016300
0.11700	0.014350
0.12200	0.014930
0.12700	0.012800
0.13200	0.015690
0.13700	0.016180
0.14200	0.015040
0.14700	0.015120
0.15200	0.011910
0.15700	0.017280
0.16200	0.010210
0.16700	0.018710
0.17200	0.0095600
0.17700	0.020160
0.18200	0.010080

E (V)	i (nA)
0.18700	0.017110
0.19200	0.027850
0.19700	-0.013690
0.19800	0.15587
0.19300	-0.041320
0.18800	0.024630
0.18300	0.0073000
0.17800	0.0078400
0.17300	0.010710
0.16800	0.0094400
0.16300	0.013460
0.15800	0.0061300
0.15300	0.0087200
0.14800	0.0083200
0.14300	0.0096600
0.13800	0.0063000
0.13300	0.0067600
0.12800	0.0087700
0.12300	0.0082600
0.11800	0.0067700
0.11300	0.0063300
0.10800	0.0091900
0.10300	0.0076900
0.098000	0.0059100
0.093000	0.0057800
0.088000	0.0077600
0.083000	0.0064500
0.078000	0.0040800
0.073000	0.0038600
0.068000	0.0058100
0.063000	0.0062800
0.058000	0.0036100
0.053000	0.0038700
0.048000	0.0064000
0.043000	0.0050800

E (V)	i (nA)
0.038000	9.2841E-4
0.033000	0.0025500
0.028000	0.0062100
0.023000	0.0062300
0.018000	0.0036800
0.013000	0.0033200
0.0080000	0.0050900
0.0030000	0.0050200
-0.0020000	0.0022700
-0.0070000	0.0015000
-0.012000	0.0034700
-0.017000	0.0047500
-0.022000	0.0027600
-0.027000	0.0028900
-0.032000	0.0058700
-0.037000	0.0041100
-0.042000	0.0059400
-0.047000	-0.0061100
-0.052000	0.053100
-0.057000	0.23175
-0.062000	0.34425
-0.067000	0.35204
-0.072000	0.34757
-0.077000	0.33564
-0.082000	0.32163
-0.087000	0.30727
-0.092000	0.29292
-0.097000	0.27682
-0.10200	0.25850
-0.10700	0.24298
-0.11200	0.22890
-0.11700	0.21320
-0.12200	0.19702
-0.12700	0.18495
-0.13200	0.17338

E (V)	i (nA)
-0.13700	0.15958
-0.14200	0.14771
-0.14700	0.13887
-0.15200	0.12608
-0.15700	0.11108
-0.16200	0.099600
-0.16700	0.089530
-0.17200	0.078820
-0.17700	0.068140
-0.18200	0.056530
-0.18700	0.048440
-0.19200	0.044090
-0.19700	0.036710
-0.20200	0.027730
-0.20700	0.022150
-0.21200	0.020280
-0.21700	0.014600
-0.22200	0.0079000
-0.22700	0.0046900
-0.23200	0.0045900
-0.23700	0.0018700
-0.24200	-0.0036100
-0.24700	-0.0058100
-0.25200	-0.0054500
-0.25700	-0.0066200
-0.26200	-0.012250
-0.26700	-0.013420
-0.27200	-0.013110
-0.27700	-0.013890
-0.28200	-0.018410
-0.28700	-0.018870
-0.29200	-0.017080
-0.29700	-0.018820
-0.30200	-0.020810
-0.30700	-0.024200

E (V)	i (nA)
-0.31200	-0.022270
-0.31700	-0.027440
-0.32200	-0.025530
-0.32700	-0.028650
-0.33200	-0.023930
-0.33700	-0.029090
-0.34200	-0.033270
-0.34700	-0.012170

8.3.2 CV-2

E (V)	i (nA)
-0.34800	-0.075420
-0.34300	-0.067570
-0.33800	-0.013970
-0.33300	-0.028080
-0.32800	-0.017170
-0.32300	-0.0085900
-0.31800	-0.010120
-0.31300	-0.0032100
-0.30800	0.0026400
-0.30300	0.018610
-0.29800	0.021400
-0.29300	0.020340
-0.28800	0.022150
-0.28300	0.021570
-0.27800	0.012680
-0.27300	0.012770
-0.26800	0.021650
-0.26300	0.023230
-0.25800	0.020510
-0.25300	0.020260
-0.24800	0.025890
-0.24300	0.029060
-0.23800	0.029850
-0.23300	0.035690

E (V)	i (nA)
-0.22800	0.047190
-0.22300	0.050350
-0.21800	0.054090
-0.21300	0.065280
-0.20800	0.070410
-0.20300	0.067740
-0.19800	0.063130
-0.19300	0.062240
-0.18800	0.060380
-0.18300	0.060890
-0.17800	0.065580
-0.17300	0.074160
-0.16800	0.087430
-0.16300	0.097440
-0.15800	0.10416
-0.15300	0.11516
-0.14800	0.12893
-0.14300	0.13691
-0.13800	0.14280
-0.13300	0.15327
-0.12800	0.16610
-0.12300	0.17396
-0.11800	0.17523
-0.11300	0.17725
-0.10800	0.18446
-0.10300	0.19239
-0.098000	0.19687
-0.093000	0.20097
-0.088000	0.20528
-0.083000	0.20704
-0.078000	0.20594
-0.073000	0.20816
-0.068000	0.21389
-0.063000	0.21508
-0.058000	0.21291

E (V)	i (nA)
-0.053000	0.21466
-0.048000	0.21858
-0.043000	0.21732
-0.038000	0.21332
-0.033000	0.21258
-0.028000	0.21516
-0.023000	0.21489
-0.018000	0.21153
-0.013000	0.21108
-0.0080000	0.21351
-0.0030000	0.21351
0.0020000	0.20998
0.0070000	0.20946
0.012000	0.21172
0.017000	0.21133
0.022000	0.20852
0.027000	0.20902
0.032000	0.21134
0.037000	0.21025
0.042000	0.20712
0.047000	0.20792
0.052000	0.21166
0.057000	0.21109
0.062000	0.20821
0.067000	0.20804
0.072000	0.21187
0.077000	0.21172
0.082000	0.20802
0.087000	0.20791
0.092000	0.21209
0.097000	0.21307
0.10200	0.20982
0.10700	0.21105
0.11200	0.21422
0.11700	0.21591

E (V)	i (nA)
0.12200	0.21432
0.12700	0.21713
0.13200	0.21970
0.13700	0.21965
0.14200	0.21678
0.14700	0.21596
0.15200	0.21991
0.15700	0.21866
0.16200	0.21725
0.16700	0.21383
0.17200	0.22087
0.17700	0.21739
0.18200	0.21721
0.18700	0.21636
0.19200	0.21958
0.19700	0.23171
0.19800	0.16349
0.19300	0.16700
0.18800	0.21852
0.18300	0.20687
0.17800	0.20527
0.17300	0.20724
0.16800	0.20826
0.16300	0.21209
0.15800	0.20606
0.15300	0.20877
0.14800	0.21006
0.14300	0.21098
0.13800	0.20590
0.13300	0.20529
0.12800	0.20794
0.12300	0.20659
0.11800	0.20297
0.11300	0.20150
0.10800	0.20377

E (V)	i (nA)
0.10300	0.20152
0.098000	0.19725
0.093000	0.19489
0.088000	0.19677
0.083000	0.19505
0.078000	0.19005
0.073000	0.18902
0.068000	0.19200
0.063000	0.19150
0.058000	0.18684
0.053000	0.18663
0.048000	0.18927
0.043000	0.18867
0.038000	0.18407
0.033000	0.18364
0.028000	0.18657
0.023000	0.18579
0.018000	0.18195
0.013000	0.18068
0.0080000	0.18309
0.0030000	0.18238
-0.0020000	0.17788
-0.0070000	0.17633
-0.012000	0.17842
-0.017000	0.17702
-0.022000	0.17215
-0.027000	0.17024
-0.032000	0.17152
-0.037000	0.16781
-0.042000	0.15918
-0.047000	0.15414
-0.052000	0.15277
-0.057000	0.14963
-0.062000	0.14484
-0.067000	0.14515

E (V)	i (nA)
-0.072000	0.14917
-0.077000	0.15030
-0.082000	0.14781
-0.087000	0.14634
-0.092000	0.14613
-0.097000	0.14004
-0.10200	0.12831
-0.10700	0.11857
-0.11200	0.11212
-0.11700	0.10177
-0.12200	0.088020
-0.12700	0.078370
-0.13200	0.071650
-0.13700	0.060260
-0.14200	0.045750
-0.14700	0.034970
-0.15200	0.028150
-0.15700	0.020470
-0.16200	0.010070
-0.16700	0.0031600
-0.17200	-0.0010300
-0.17700	-0.0083200
-0.18200	-0.018760
-0.18700	-0.025330
-0.19200	-0.027210
-0.19700	-0.032340
-0.20200	-0.040760
-0.20700	-0.045280
-0.21200	-0.045420
-0.21700	-0.049720
-0.22200	-0.055800
-0.22700	-0.058560
-0.23200	-0.057680
-0.23700	-0.059590
-0.24200	-0.064620

E (V)	i (nA)
-0.24700	-0.066030
-0.25200	-0.064640
-0.25700	-0.065080
-0.26200	-0.069830
-0.26700	-0.070060
-0.27200	-0.067700
-0.27700	-0.067650
-0.28200	-0.071990
-0.28700	-0.071470
-0.29200	-0.067880
-0.29700	-0.068370
-0.30200	-0.070210
-0.30700	-0.070950
-0.31200	-0.065100
-0.31700	-0.067290
-0.32200	-0.067150
-0.32700	-0.070010
-0.33200	-0.063330
-0.33700	-0.064380
-0.34200	-0.070150
-0.34700	-0.056390

8.3.3 CV-3

E (V)	i (nA)
-0.34800	-0.10491
-0.34300	-0.085240
-0.33800	-0.046030
-0.33300	-0.052220
-0.32800	-0.043790
-0.32300	-0.039920
-0.31800	-0.043260
-0.31300	-0.037880
-0.30800	-0.034180
-0.30300	-0.029950
-0.29800	-0.032390

E (V)	i (nA)
-0.29300	-0.029580
-0.28800	-0.025720
-0.28300	-0.023940
-0.27800	-0.025620
-0.27300	-0.024240
-0.26800	-0.018940
-0.26300	-0.018340
-0.25800	-0.020340
-0.25300	-0.019790
-0.24800	-0.014800
-0.24300	-0.013940
-0.23800	-0.015610
-0.23300	-0.013000
-0.22800	-0.0064100
-0.22300	-0.0035900
-0.21800	-0.0037600
-0.21300	3.7406E-4
-0.20800	0.0075900
-0.20300	0.012410
-0.19800	0.014250
-0.19300	0.019720
-0.18800	0.028510
-0.18300	0.035030
-0.17800	0.038350
-0.17300	0.045340
-0.16800	0.056360
-0.16300	0.064110
-0.15800	0.069190
-0.15300	0.078210
-0.14800	0.090530
-0.14300	0.099220
-0.13800	0.10581
-0.13300	0.11540
-0.12800	0.12751
-0.12300	0.13653

E (V)	i (nA)
-0.11800	0.14199
-0.11300	0.15009
-0.10800	0.16102
-0.10300	0.16845
-0.098000	0.17204
-0.093000	0.17804
-0.088000	0.18668
-0.083000	0.19163
-0.078000	0.19175
-0.073000	0.19506
-0.068000	0.20140
-0.063000	0.20315
-0.058000	0.20152
-0.053000	0.20294
-0.048000	0.20729
-0.043000	0.20763
-0.038000	0.20443
-0.033000	0.20428
-0.028000	0.20750
-0.023000	0.20805
-0.018000	0.20523
-0.013000	0.20494
-0.0080000	0.20825
-0.0030000	0.20815
0.0020000	0.20389
0.0070000	0.20375
0.012000	0.20700
0.017000	0.20646
0.022000	0.20257
0.027000	0.20293
0.032000	0.20630
0.037000	0.20604
0.042000	0.20256
0.047000	0.20213
0.052000	0.20557

E (V)	i (nA)
0.057000	0.20528
0.062000	0.20180
0.067000	0.20117
0.072000	0.20448
0.077000	0.20458
0.082000	0.20120
0.087000	0.20092
0.092000	0.20447
0.097000	0.20446
0.10200	0.20058
0.10700	0.20129
0.11200	0.20435
0.11700	0.20455
0.12200	0.20079
0.12700	0.20146
0.13200	0.20413
0.13700	0.20395
0.14200	0.20044
0.14700	0.19985
0.15200	0.20396
0.15700	0.20295
0.16200	0.20071
0.16700	0.19925
0.17200	0.20532
0.17700	0.20296
0.18200	0.20197
0.18700	0.20113
0.19200	0.20369
0.19700	0.21050
0.19800	0.16269
0.19300	0.17323
0.18800	0.19313
0.18300	0.18793
0.17800	0.18417
0.17300	0.18390

E (V)	i (nA)
0.16800	0.18531
0.16300	0.18614
0.15800	0.18114
0.15300	0.18155
0.14800	0.18390
0.14300	0.18375
0.13800	0.17958
0.13300	0.17992
0.12800	0.18293
0.12300	0.18195
0.11800	0.17857
0.11300	0.17812
0.10800	0.18106
0.10300	0.18011
0.098000	0.17660
0.093000	0.17644
0.088000	0.17972
0.083000	0.17923
0.078000	0.17526
0.073000	0.17489
0.068000	0.17856
0.063000	0.17858
0.058000	0.17460
0.053000	0.17439
0.048000	0.17718
0.043000	0.17685
0.038000	0.17303
0.033000	0.17275
0.028000	0.17564
0.023000	0.17513
0.018000	0.17176
0.013000	0.17143
0.0080000	0.17425
0.0030000	0.17388
-0.0020000	0.16977

E (V)	i (nA)
-0.0070000	0.16867
-0.012000	0.17185
-0.017000	0.17114
-0.022000	0.16611
-0.027000	0.16495
-0.032000	0.16726
-0.037000	0.16493
-0.042000	0.15912
-0.047000	0.15733
-0.052000	0.15789
-0.057000	0.15471
-0.062000	0.14816
-0.067000	0.14428
-0.072000	0.14321
-0.077000	0.13840
-0.082000	0.12908
-0.087000	0.12239
-0.092000	0.11868
-0.097000	0.11072
-0.10200	0.098810
-0.10700	0.089810
-0.11200	0.083630
-0.11700	0.073130
-0.12200	0.059750
-0.12700	0.049740
-0.13200	0.042320
-0.13700	0.031750
-0.14200	0.018130
-0.14700	0.0082900
-0.15200	0.0017300
-0.15700	-0.0076900
-0.16200	-0.019900
-0.16700	-0.028560
-0.17200	-0.033180
-0.17700	-0.040380

E (V)	i (nA)
-0.18200	-0.051120
-0.18700	-0.057700
-0.19200	-0.059630
-0.19700	-0.064850
-0.20200	-0.073120
-0.20700	-0.077190
-0.21200	-0.077030
-0.21700	-0.080440
-0.22200	-0.086400
-0.22700	-0.088950
-0.23200	-0.087960
-0.23700	-0.089460
-0.24200	-0.094280
-0.24700	-0.095860
-0.25200	-0.093780
-0.25700	-0.094460
-0.26200	-0.098940
-0.26700	-0.099400
-0.27200	-0.096880
-0.27700	-0.097320
-0.28200	-0.10159
-0.28700	-0.10169
-0.29200	-0.098300
-0.29700	-0.098920
-0.30200	-0.10226
-0.30700	-0.10294
-0.31200	-0.098770
-0.31700	-0.10011
-0.32200	-0.10255
-0.32700	-0.10390
-0.33200	-0.099620
-0.33700	-0.099800
-0.34200	-0.10449
-0.34700	-0.098670

8.3.4 CV-4

E (V)	i (nA)
-0.34800	-0.11322
-0.34300	-0.097870
-0.33800	-0.086120
-0.33300	-0.085950
-0.32800	-0.079650
-0.32300	-0.077390
-0.31800	-0.079410
-0.31300	-0.076750
-0.30800	-0.072490
-0.30300	-0.070640
-0.29800	-0.072750
-0.29300	-0.071050
-0.28800	-0.066790
-0.28300	-0.065280
-0.27800	-0.067240
-0.27300	-0.065830
-0.26800	-0.060660
-0.26300	-0.059200
-0.25800	-0.060940
-0.25300	-0.059250
-0.24800	-0.053460
-0.24300	-0.051380
-0.23800	-0.052440
-0.23300	-0.049550
-0.22800	-0.042950
-0.22300	-0.039450
-0.21800	-0.038980
-0.21300	-0.034790
-0.20800	-0.026960
-0.20300	-0.021600
-0.19800	-0.019270
-0.19300	-0.013670
-0.18800	-0.0037900
-0.18300	0.0037400

E (V)	i (nA)
-0.17800	0.0076900
-0.17300	0.015860
-0.16800	0.028070
-0.16300	0.036870
-0.15800	0.043000
-0.15300	0.053080
-0.14800	0.066810
-0.14300	0.076980
-0.13800	0.084040
-0.13300	0.094820
-0.12800	0.10868
-0.12300	0.11905
-0.11800	0.12568
-0.11300	0.13479
-0.10800	0.14725
-0.10300	0.15591
-0.098000	0.15979
-0.093000	0.16650
-0.088000	0.17621
-0.083000	0.18142
-0.078000	0.18231
-0.073000	0.18625
-0.068000	0.19269
-0.063000	0.19507
-0.058000	0.19402
-0.053000	0.19574
-0.048000	0.20006
-0.043000	0.20059
-0.038000	0.19786
-0.033000	0.19832
-0.028000	0.20195
-0.023000	0.20199
-0.018000	0.19849
-0.013000	0.19862
-0.0080000	0.20216

E (V)	i (nA)
-0.0030000	0.20196
0.0020000	0.19836
0.0070000	0.19863
0.012000	0.20191
0.017000	0.20120
0.022000	0.19725
0.027000	0.19700
0.032000	0.20011
0.037000	0.19983
0.042000	0.19615
0.047000	0.19586
0.052000	0.19890
0.057000	0.19884
0.062000	0.19581
0.067000	0.19543
0.072000	0.19864
0.077000	0.19863
0.082000	0.19501
0.087000	0.19508
0.092000	0.19846
0.097000	0.19802
0.10200	0.19430
0.10700	0.19446
0.11200	0.19759
0.11700	0.19750
0.12200	0.19422
0.12700	0.19455
0.13200	0.19785
0.13700	0.19798
0.14200	0.19458
0.14700	0.19450
0.15200	0.19824
0.15700	0.19823
0.16200	0.19494
0.16700	0.19435

E (V)	i (nA)
0.17200	0.19867
0.17700	0.19788
0.18200	0.19485
0.18700	0.19453
0.19200	0.19805
0.19700	0.19831
0.19800	0.17960
0.19300	0.17781
0.18800	0.18375
0.18300	0.18212
0.17800	0.17796
0.17300	0.17734
0.16800	0.17960
0.16300	0.17938
0.15800	0.17478
0.15300	0.17471
0.14800	0.17751
0.14300	0.17668
0.13800	0.17279
0.13300	0.17294
0.12800	0.17599
0.12300	0.17514
0.11800	0.17139
0.11300	0.17124
0.10800	0.17440
0.10300	0.17391
0.098000	0.17069
0.093000	0.17066
0.088000	0.17347
0.083000	0.17286
0.078000	0.16906
0.073000	0.16884
0.068000	0.17199
0.063000	0.17182
0.058000	0.16814

E (V)	i (nA)
0.053000	0.16779
0.048000	0.17081
0.043000	0.17028
0.038000	0.16676
0.033000	0.16698
0.028000	0.16958
0.023000	0.16867
0.018000	0.16519
0.013000	0.16480
0.0080000	0.16757
0.0030000	0.16704
-0.0020000	0.16240
-0.0070000	0.16121
-0.012000	0.16435
-0.017000	0.16326
-0.022000	0.15820
-0.027000	0.15707
-0.032000	0.15901
-0.037000	0.15688
-0.042000	0.15087
-0.047000	0.14834
-0.052000	0.14865
-0.057000	0.14487
-0.062000	0.13751
-0.067000	0.13265
-0.072000	0.13074
-0.077000	0.12514
-0.082000	0.11491
-0.087000	0.10743
-0.092000	0.10275
-0.097000	0.093720
-0.10200	0.080780
-0.10700	0.070700
-0.11200	0.063400
-0.11700	0.052010

E (V)	i (nA)
-0.12200	0.037020
-0.12700	0.025770
-0.13200	0.017710
-0.13700	0.0058500
-0.14200	-0.0088400
-0.14700	-0.019580
-0.15200	-0.026620
-0.15700	-0.036700
-0.16200	-0.050120
-0.16700	-0.059270
-0.17200	-0.063840
-0.17700	-0.071250
-0.18200	-0.082100
-0.18700	-0.088910
-0.19200	-0.091120
-0.19700	-0.096350
-0.20200	-0.10463
-0.20700	-0.10879
-0.21200	-0.10873
-0.21700	-0.11185
-0.22200	-0.11784
-0.22700	-0.11999
-0.23200	-0.11862
-0.23700	-0.12025
-0.24200	-0.12484
-0.24700	-0.12609
-0.25200	-0.12386
-0.25700	-0.12450
-0.26200	-0.12875
-0.26700	-0.12899
-0.27200	-0.12568
-0.27700	-0.12617
-0.28200	-0.13018
-0.28700	-0.13003
-0.29200	-0.12635

E (V)	i (nA)
-0.29700	-0.12678
-0.30200	-0.12991
-0.30700	-0.12986
-0.31200	-0.12651
-0.31700	-0.12687
-0.32200	-0.12963
-0.32700	-0.13017
-0.33200	-0.12655
-0.33700	-0.12632
-0.34200	-0.13046
-0.34700	-0.12711

8.3.5 CV-5

E (V)	i (nA)
-0.34800	-0.12780
-0.34300	-0.11571
-0.33800	-0.11220
-0.33300	-0.10957
-0.32800	-0.10343
-0.32300	-0.10167
-0.31800	-0.10350
-0.31300	-0.10168
-0.30800	-0.097030
-0.30300	-0.095730
-0.29800	-0.098020
-0.29300	-0.096710
-0.28800	-0.091930
-0.28300	-0.090240
-0.27800	-0.092350
-0.27300	-0.091270
-0.26800	-0.086060
-0.26300	-0.084210
-0.25800	-0.086300
-0.25300	-0.084470
-0.24800	-0.078890

E (V)	i (nA)
-0.24300	-0.076880
-0.23800	-0.077640
-0.23300	-0.074840
-0.22800	-0.068780
-0.22300	-0.065470
-0.21800	-0.064720
-0.21300	-0.060700
-0.20800	-0.052940
-0.20300	-0.047420
-0.19800	-0.044960
-0.19300	-0.038640
-0.18800	-0.028210
-0.18300	-0.020700
-0.17800	-0.016150
-0.17300	-0.0076600
-0.16800	0.0051300
-0.16300	0.014760
-0.15800	0.021240
-0.15300	0.032340
-0.14800	0.046830
-0.14300	0.057730
-0.13800	0.066050
-0.13300	0.077880
-0.12800	0.092890
-0.12300	0.10441
-0.11800	0.11208
-0.11300	0.12232
-0.10800	0.13567
-0.10300	0.14529
-0.098000	0.15013
-0.093000	0.15774
-0.088000	0.16803
-0.083000	0.17361
-0.078000	0.17536
-0.073000	0.17997

E (V)	i (nA)
-0.068000	0.18681
-0.063000	0.18928
-0.058000	0.18845
-0.053000	0.19045
-0.048000	0.19478
-0.043000	0.19599
-0.038000	0.19336
-0.033000	0.19359
-0.028000	0.19752
-0.023000	0.19738
-0.018000	0.19360
-0.013000	0.19371
-0.0080000	0.19708
-0.0030000	0.19690
0.0020000	0.19336
0.0070000	0.19349
0.012000	0.19687
0.017000	0.19611
0.022000	0.19258
0.027000	0.19273
0.032000	0.19537
0.037000	0.19506
0.042000	0.19173
0.047000	0.19139
0.052000	0.19442
0.057000	0.19410
0.062000	0.19052
0.067000	0.19046
0.072000	0.19397
0.077000	0.19397
0.082000	0.19043
0.087000	0.19049
0.092000	0.19389
0.097000	0.19352
0.10200	0.18985

E (V)	i (nA)
0.10700	0.18999
0.11200	0.19324
0.11700	0.19288
0.12200	0.18944
0.12700	0.18934
0.13200	0.19259
0.13700	0.19278
0.14200	0.18933
0.14700	0.18909
0.15200	0.19277
0.15700	0.19319
0.16200	0.18940
0.16700	0.18919
0.17200	0.19304
0.17700	0.19268
0.18200	0.18931
0.18700	0.18933
0.19200	0.19303
0.19700	0.19096
0.19800	0.18057
0.19300	0.18012
0.18800	0.17590
0.18300	0.17641
0.17800	0.17186
0.17300	0.17102
0.16800	0.17416
0.16300	0.17365
0.15800	0.16963
0.15300	0.16898
0.14800	0.17223
0.14300	0.17137
0.13800	0.16756
0.13300	0.16728
0.12800	0.17042
0.12300	0.16998

E (V)	i (nA)
0.11800	0.16632
0.11300	0.16607
0.10800	0.16895
0.10300	0.16902
0.098000	0.16592
0.093000	0.16560
0.088000	0.16807
0.083000	0.16786
0.078000	0.16432
0.073000	0.16368
0.068000	0.16671
0.063000	0.16637
0.058000	0.16258
0.053000	0.16242
0.048000	0.16544
0.043000	0.16476
0.038000	0.16115
0.033000	0.16100
0.028000	0.16391
0.023000	0.16334
0.018000	0.15944
0.013000	0.15878
0.0080000	0.16136
0.0030000	0.16067
-0.0020000	0.15611
-0.0070000	0.15482
-0.012000	0.15755
-0.017000	0.15648
-0.022000	0.15123
-0.027000	0.14957
-0.032000	0.15132
-0.037000	0.14902
-0.042000	0.14305
-0.047000	0.14026
-0.052000	0.14003

E (V)	i (nA)
-0.057000	0.13589
-0.062000	0.12816
-0.067000	0.12287
-0.072000	0.12007
-0.077000	0.11326
-0.082000	0.10241
-0.087000	0.094220
-0.092000	0.088740
-0.097000	0.078790
-0.10200	0.064040
-0.10700	0.052880
-0.11200	0.045130
-0.11700	0.032680
-0.12200	0.016670
-0.12700	0.0042000
-0.13200	-0.0052000
-0.13700	-0.017850
-0.14200	-0.033510
-0.14700	-0.045370
-0.15200	-0.053180
-0.15700	-0.063870
-0.16200	-0.077460
-0.16700	-0.086840
-0.17200	-0.092140
-0.17700	-0.099940
-0.18200	-0.11039
-0.18700	-0.11703
-0.19200	-0.11955
-0.19700	-0.12515
-0.20200	-0.13302
-0.20700	-0.13647
-0.21200	-0.13708
-0.21700	-0.14043
-0.22200	-0.14594
-0.22700	-0.14784

E (V)	i (nA)
-0.23200	-0.14616
-0.23700	-0.14749
-0.24200	-0.15204
-0.24700	-0.15304
-0.25200	-0.14999
-0.25700	-0.15024
-0.26200	-0.15423
-0.26700	-0.15447
-0.27200	-0.15119
-0.27700	-0.15184
-0.28200	-0.15574
-0.28700	-0.15552
-0.29200	-0.15148
-0.29700	-0.15138
-0.30200	-0.15450
-0.30700	-0.15406
-0.31200	-0.15061
-0.31700	-0.14986
-0.32200	-0.15291
-0.32700	-0.15293
-0.33200	-0.14980
-0.33700	-0.14968
-0.34200	-0.15368
-0.34700	-0.15205

8.3.6 CV-6

E (V)	i (nA)
-0.34800	-0.14280
-0.34300	-0.13338
-0.33800	-0.13580
-0.33300	-0.13228
-0.32800	-0.12628
-0.32300	-0.12488
-0.31800	-0.12622
-0.31300	-0.12447

E (V)	i (nA)
-0.30800	-0.11964
-0.30300	-0.11855
-0.29800	-0.12033
-0.29300	-0.11904
-0.28800	-0.11425
-0.28300	-0.11261
-0.27800	-0.11501
-0.27300	-0.11432
-0.26800	-0.10936
-0.26300	-0.10776
-0.25800	-0.10979
-0.25300	-0.10751
-0.24800	-0.10184
-0.24300	-0.099690
-0.23800	-0.10091
-0.23300	-0.098110
-0.22800	-0.091380
-0.22300	-0.088010
-0.21800	-0.087350
-0.21300	-0.083110
-0.20800	-0.075220
-0.20300	-0.069860
-0.19800	-0.067510
-0.19300	-0.060950
-0.18800	-0.050040
-0.18300	-0.042290
-0.17800	-0.037460
-0.17300	-0.028230
-0.16800	-0.014680
-0.16300	-0.0043700
-0.15800	0.0028400
-0.15300	0.014440
-0.14800	0.029940
-0.14300	0.042010
-0.13800	0.050820

E (V)	i (nA)
-0.13300	0.063420
-0.12800	0.079260
-0.12300	0.091610
-0.11800	0.10029
-0.11300	0.11127
-0.10800	0.12559
-0.10300	0.13643
-0.098000	0.14205
-0.093000	0.15011
-0.088000	0.16155
-0.083000	0.16820
-0.078000	0.17009
-0.073000	0.17485
-0.068000	0.18213
-0.063000	0.18505
-0.058000	0.18418
-0.053000	0.18649
-0.048000	0.19142
-0.043000	0.19250
-0.038000	0.19006
-0.033000	0.19038
-0.028000	0.19420
-0.023000	0.19484
-0.018000	0.19119
-0.013000	0.19113
-0.0080000	0.19504
-0.0030000	0.19501
0.0020000	0.19124
0.0070000	0.19094
0.012000	0.19402
0.017000	0.19373
0.022000	0.19030
0.027000	0.19013
0.032000	0.19329
0.037000	0.19320

E (V)	i (nA)
0.042000	0.18947
0.047000	0.18900
0.052000	0.19221
0.057000	0.19219
0.062000	0.18831
0.067000	0.18769
0.072000	0.19087
0.077000	0.19075
0.082000	0.18691
0.087000	0.18724
0.092000	0.19112
0.097000	0.19051
0.10200	0.18700
0.10700	0.18717
0.11200	0.19025
0.11700	0.19001
0.12200	0.18650
0.12700	0.18617
0.13200	0.18939
0.13700	0.18939
0.14200	0.18596
0.14700	0.18567
0.15200	0.18922
0.15700	0.18955
0.16200	0.18559
0.16700	0.18604
0.17200	0.18934
0.17700	0.18923
0.18200	0.18582
0.18700	0.18613
0.19200	0.19010
0.19700	0.18661
0.19800	0.18187
0.19300	0.17727
0.18800	0.17257

E (V)	i (nA)
0.18300	0.17269
0.17800	0.16819
0.17300	0.16790
0.16800	0.17114
0.16300	0.17059
0.15800	0.16656
0.15300	0.16565
0.14800	0.16883
0.14300	0.16798
0.13800	0.16415
0.13300	0.16410
0.12800	0.16697
0.12300	0.16640
0.11800	0.16293
0.11300	0.16262
0.10800	0.16543
0.10300	0.16508
0.098000	0.16164
0.093000	0.16162
0.088000	0.16460
0.083000	0.16420
0.078000	0.16030
0.073000	0.16007
0.068000	0.16315
0.063000	0.16238
0.058000	0.15848
0.053000	0.15838
0.048000	0.16160
0.043000	0.16071
0.038000	0.15657
0.033000	0.15657
0.028000	0.15950
0.023000	0.15905
0.018000	0.15548
0.013000	0.15451

E (V)	i (nA)
0.0080000	0.15724
0.0030000	0.15677
-0.0020000	0.15221
-0.0070000	0.15098
-0.012000	0.15315
-0.017000	0.15192
-0.022000	0.14687
-0.027000	0.14498
-0.032000	0.14639
-0.037000	0.14364
-0.042000	0.13757
-0.047000	0.13469
-0.052000	0.13377
-0.057000	0.12923
-0.062000	0.12114
-0.067000	0.11517
-0.072000	0.11177
-0.077000	0.10415
-0.082000	0.092100
-0.087000	0.082950
-0.092000	0.076460
-0.097000	0.065420
-0.10200	0.050100
-0.10700	0.037780
-0.11200	0.028570
-0.11700	0.015240
-0.12200	-0.0017900
-0.12700	-0.015240
-0.13200	-0.025340
-0.13700	-0.038670
-0.14200	-0.055060
-0.14700	-0.067640
-0.15200	-0.076540
-0.15700	-0.087890
-0.16200	-0.10157

E (V)	i (nA)
-0.16700	-0.11160
-0.17200	-0.11726
-0.17700	-0.12541
-0.18200	-0.13616
-0.18700	-0.14242
-0.19200	-0.14490
-0.19700	-0.15041
-0.20200	-0.15831
-0.20700	-0.16183
-0.21200	-0.16170
-0.21700	-0.16472
-0.22200	-0.17015
-0.22700	-0.17172
-0.23200	-0.16992
-0.23700	-0.17111
-0.24200	-0.17559
-0.24700	-0.17630
-0.25200	-0.17284
-0.25700	-0.17275
-0.26200	-0.17679
-0.26700	-0.17716
-0.27200	-0.17336
-0.27700	-0.17339
-0.28200	-0.17678
-0.28700	-0.17656
-0.29200	-0.17301
-0.29700	-0.17308
-0.30200	-0.17634
-0.30700	-0.17589
-0.31200	-0.17231
-0.31700	-0.17213
-0.32200	-0.17514
-0.32700	-0.17448
-0.33200	-0.17122
-0.33700	-0.17084

E (V)	i (nA)
-0.34200	-0.17501
-0.34700	-0.17317

8.3.7 CV-7

E (V)	i (nA)
-0.34800	-0.16338
-0.34300	-0.15583
-0.33800	-0.15608
-0.33300	-0.15316
-0.32800	-0.14729
-0.32300	-0.14583
-0.31800	-0.14760
-0.31300	-0.14585
-0.30800	-0.14072
-0.30300	-0.13955
-0.29800	-0.14140
-0.29300	-0.14009
-0.28800	-0.13564
-0.28300	-0.13400
-0.27800	-0.13591
-0.27300	-0.13459
-0.26800	-0.12949
-0.26300	-0.12765
-0.25800	-0.12942
-0.25300	-0.12736
-0.24800	-0.12172
-0.24300	-0.11980
-0.23800	-0.12047
-0.23300	-0.11709
-0.22800	-0.11076
-0.22300	-0.10758
-0.21800	-0.10702
-0.21300	-0.10254
-0.20800	-0.094260
-0.20300	-0.088770

E (V)	i (nA)
-0.19800	-0.086260
-0.19300	-0.080060
-0.18800	-0.069110
-0.18300	-0.060730
-0.17800	-0.055760
-0.17300	-0.046320
-0.16800	-0.032640
-0.16300	-0.022130
-0.15800	-0.014110
-0.15300	-0.0019200
-0.14800	0.013830
-0.14300	0.026350
-0.13800	0.036080
-0.13300	0.049390
-0.12800	0.065680
-0.12300	0.078880
-0.11800	0.088570
-0.11300	0.10090
-0.10800	0.11629
-0.10300	0.12747
-0.098000	0.13437
-0.093000	0.14403
-0.088000	0.15601
-0.083000	0.16311
-0.078000	0.16576
-0.073000	0.17148
-0.068000	0.17950
-0.063000	0.18263
-0.058000	0.18218
-0.053000	0.18457
-0.048000	0.18959
-0.043000	0.19119
-0.038000	0.18876
-0.033000	0.18932
-0.028000	0.19342

E (V)	i (nA)
-0.023000	0.19413
-0.018000	0.19094
-0.013000	0.19085
-0.0080000	0.19428
-0.0030000	0.19409
0.0020000	0.19059
0.0070000	0.19045
0.012000	0.19334
0.017000	0.19265
0.022000	0.18906
0.027000	0.18899
0.032000	0.19183
0.037000	0.19158
0.042000	0.18804
0.047000	0.18776
0.052000	0.19111
0.057000	0.19086
0.062000	0.18680
0.067000	0.18663
0.072000	0.19021
0.077000	0.18972
0.082000	0.18562
0.087000	0.18553
0.092000	0.18900
0.097000	0.18860
0.10200	0.18515
0.10700	0.18521
0.11200	0.18784
0.11700	0.18759
0.12200	0.18475
0.12700	0.18455
0.13200	0.18768
0.13700	0.18779
0.14200	0.18437
0.14700	0.18432

E (V)	i (nA)
0.15200	0.18764
0.15700	0.18759
0.16200	0.18382
0.16700	0.18419
0.17200	0.18761
0.17700	0.18724
0.18200	0.18381
0.18700	0.18430
0.19200	0.18858
0.19700	0.18562
0.19800	0.17867
0.19300	0.17353
0.18800	0.17208
0.18300	0.17197
0.17800	0.16735
0.17300	0.16625
0.16800	0.16928
0.16300	0.16897
0.15800	0.16445
0.15300	0.16385
0.14800	0.16720
0.14300	0.16665
0.13800	0.16282
0.13300	0.16258
0.12800	0.16545
0.12300	0.16474
0.11800	0.16124
0.11300	0.16117
0.10800	0.16388
0.10300	0.16333
0.098000	0.15961
0.093000	0.15893
0.088000	0.16219
0.083000	0.16203
0.078000	0.15774

E (V)	i (nA)
0.073000	0.15750
0.068000	0.16092
0.063000	0.16055
0.058000	0.15659
0.053000	0.15617
0.048000	0.15941
0.043000	0.15891
0.038000	0.15490
0.033000	0.15441
0.028000	0.15717
0.023000	0.15688
0.018000	0.15316
0.013000	0.15219
0.0080000	0.15494
0.0030000	0.15435
-0.0020000	0.14974
-0.0070000	0.14863
-0.012000	0.15100
-0.017000	0.14945
-0.022000	0.14434
-0.027000	0.14252
-0.032000	0.14329
-0.037000	0.14016
-0.042000	0.13383
-0.047000	0.13049
-0.052000	0.12936
-0.057000	0.12414
-0.062000	0.11515
-0.067000	0.10877
-0.072000	0.10479
-0.077000	0.096410
-0.082000	0.083620
-0.087000	0.073320
-0.092000	0.065750
-0.097000	0.053670

E (V)	i (nA)
-0.10200	0.037320
-0.10700	0.024120
-0.11200	0.013410
-0.11700	-0.0014200
-0.12200	-0.019160
-0.12700	-0.033410
-0.13200	-0.044760
-0.13700	-0.058910
-0.14200	-0.075540
-0.14700	-0.088680
-0.15200	-0.098100
-0.15700	-0.10997
-0.16200	-0.12404
-0.16700	-0.13386
-0.17200	-0.13974
-0.17700	-0.14818
-0.18200	-0.15920
-0.18700	-0.16562
-0.19200	-0.16772
-0.19700	-0.17290
-0.20200	-0.18062
-0.20700	-0.18408
-0.21200	-0.18351
-0.21700	-0.18579
-0.22200	-0.19112
-0.22700	-0.19281
-0.23200	-0.19067
-0.23700	-0.19159
-0.24200	-0.19586
-0.24700	-0.19648
-0.25200	-0.19336
-0.25700	-0.19328
-0.26200	-0.19678
-0.26700	-0.19687
-0.27200	-0.19322

E (V)	i (nA)
-0.27700	-0.19308
-0.28200	-0.19627
-0.28700	-0.19560
-0.29200	-0.19208
-0.29700	-0.19232
-0.30200	-0.19481
-0.30700	-0.19446
-0.31200	-0.19115
-0.31700	-0.19087
-0.32200	-0.19402
-0.32700	-0.19384
-0.33200	-0.19014
-0.33700	-0.18967
-0.34200	-0.19359
-0.34700	-0.19108

8.3.8 CV-8

E (V)	i (nA)
-0.34800	-0.18462
-0.34300	-0.17544
-0.33800	-0.17330
-0.33300	-0.17106
-0.32800	-0.16526
-0.32300	-0.16369
-0.31800	-0.16519
-0.31300	-0.16347
-0.30800	-0.15922
-0.30300	-0.15762
-0.29800	-0.15915
-0.29300	-0.15799
-0.28800	-0.15329
-0.28300	-0.15175
-0.27800	-0.15383
-0.27300	-0.15207
-0.26800	-0.14685

E (V)	i (nA)
-0.26300	-0.14527
-0.25800	-0.14704
-0.25300	-0.14480
-0.24800	-0.13910
-0.24300	-0.13736
-0.23800	-0.13835
-0.23300	-0.13518
-0.22800	-0.12875
-0.22300	-0.12550
-0.21800	-0.12499
-0.21300	-0.12077
-0.20800	-0.11257
-0.20300	-0.10687
-0.19800	-0.10415
-0.19300	-0.097570
-0.18800	-0.086450
-0.18300	-0.078080
-0.17800	-0.072860
-0.17300	-0.063160
-0.16800	-0.049290
-0.16300	-0.038340
-0.15800	-0.029830
-0.15300	-0.016990
-0.14800	-6.5498E-4
-0.14300	0.012420
-0.13800	0.023250
-0.13300	0.037620
-0.12800	0.054830
-0.12300	0.068920
-0.11800	0.079340
-0.11300	0.092730
-0.10800	0.10925
-0.10300	0.12114
-0.098000	0.12897
-0.093000	0.13970

E (V)	i (nA)
-0.088000	0.15229
-0.083000	0.15995
-0.078000	0.16341
-0.073000	0.16988
-0.068000	0.17849
-0.063000	0.18240
-0.058000	0.18239
-0.053000	0.18490
-0.048000	0.19008
-0.043000	0.19178
-0.038000	0.18977
-0.033000	0.19047
-0.028000	0.19419
-0.023000	0.19459
-0.018000	0.19140
-0.013000	0.19121
-0.0080000	0.19445
-0.0030000	0.19393
0.0020000	0.19033
0.0070000	0.19084
0.012000	0.19398
0.017000	0.19314
0.022000	0.18946
0.027000	0.18943
0.032000	0.19246
0.037000	0.19201
0.042000	0.18814
0.047000	0.18754
0.052000	0.19080
0.057000	0.19096
0.062000	0.18713
0.067000	0.18678
0.072000	0.19034
0.077000	0.18990
0.082000	0.18595

E (V)	i (nA)
0.087000	0.18583
0.092000	0.18883
0.097000	0.18842
0.10200	0.18492
0.10700	0.18471
0.11200	0.18788
0.11700	0.18767
0.12200	0.18401
0.12700	0.18385
0.13200	0.18709
0.13700	0.18705
0.14200	0.18358
0.14700	0.18360
0.15200	0.18716
0.15700	0.18704
0.16200	0.18310
0.16700	0.18325
0.17200	0.18686
0.17700	0.18625
0.18200	0.18275
0.18700	0.18281
0.19200	0.18672
0.19700	0.18440
0.19800	0.17542
0.19300	0.16938
0.18800	0.16927
0.18300	0.16817
0.17800	0.16351
0.17300	0.16265
0.16800	0.16523
0.16300	0.16477
0.15800	0.15981
0.15300	0.15871
0.14800	0.16131
0.14300	0.16027

E (V)	i (nA)
0.13800	0.15651
0.13300	0.15656
0.12800	0.15983
0.12300	0.15961
0.11800	0.15629
0.11300	0.15649
0.10800	0.15986
0.10300	0.15993
0.098000	0.15630
0.093000	0.15541
0.088000	0.15851
0.083000	0.15816
0.078000	0.15351
0.073000	0.15221
0.068000	0.15451
0.063000	0.15341
0.058000	0.14903
0.053000	0.14846
0.048000	0.15108
0.043000	0.14973
0.038000	0.14510
0.033000	0.14346
0.028000	0.14416
0.023000	0.14230
0.018000	0.13912
0.013000	0.14069
0.0080000	0.14266
0.0030000	0.13552
-0.0020000	0.12513
-0.0070000	0.12161
-0.012000	0.12199
-0.017000	0.11691
-0.022000	0.10715
-0.027000	0.10229
-0.032000	0.10219

E (V)	i (nA)
-0.037000	0.098880
-0.042000	0.093240
-0.047000	0.091850
-0.052000	0.092630
-0.057000	0.088490
-0.062000	0.079350
-0.067000	0.071440
-0.072000	0.065540
-0.077000	0.055000
-0.082000	0.038950
-0.087000	0.024830
-0.092000	0.014980
-0.097000	0.0036300
-0.10200	-0.011990
-0.10700	-0.028050
-0.11200	-0.042460
-0.11700	-0.058910
-0.12200	-0.076790
-0.12700	-0.089800
-0.13200	-0.095070
-0.13700	-0.098270
-0.14200	-0.10275
-0.14700	-0.11069
-0.15200	-0.14309
-0.15700	-0.19179
-0.16200	-0.21545
-0.16700	-0.21642
-0.17200	-0.21316
-0.17700	-0.20764
-0.18200	-0.20717
-0.18700	-0.21007
-0.19200	-0.21093
-0.19700	-0.21270
-0.20200	-0.21564
-0.20700	-0.21464

E (V)	i (nA)
-0.21200	-0.20950
-0.21700	-0.20935
-0.22200	-0.21430
-0.22700	-0.21507
-0.23200	-0.21102
-0.23700	-0.20746
-0.24200	-0.20528
-0.24700	-0.20089
-0.25200	-0.19494
-0.25700	-0.19381
-0.26200	-0.19683
-0.26700	-0.19448
-0.27200	-0.18577
-0.27700	-0.18023
-0.28200	-0.17834
-0.28700	-0.17117
-0.29200	-0.16139
-0.29700	-0.15284
-0.30200	-0.14406
-0.30700	-0.14547
-0.31200	-0.15622
-0.31700	-0.16196
-0.32200	-0.15771
-0.32700	-0.14385
-0.33200	-0.13022
-0.33700	-0.12979
-0.34200	-0.13413
-0.34700	-0.13113

8.3.9 CV-9

E (V)	i (nA)
-0.34800	-0.13146
-0.34300	-0.14029
-0.33800	-0.13499
-0.33300	-0.14006

E (V)	i (nA)
-0.32800	-0.14238
-0.32300	-0.14646
-0.31800	-0.14915
-0.31300	-0.14675
-0.30800	-0.14028
-0.30300	-0.13403
-0.29800	-0.13172
-0.29300	-0.12851
-0.28800	-0.12391
-0.28300	-0.12076
-0.27800	-0.12054
-0.27300	-0.12167
-0.26800	-0.12332
-0.26300	-0.13175
-0.25800	-0.14411
-0.25300	-0.13355
-0.24800	-0.089000
-0.24300	-0.060180
-0.23800	-0.075850
-0.23300	-0.091790
-0.22800	-0.094850
-0.22300	-0.10469
-0.21800	-0.11385
-0.21300	-0.11716
-0.20800	-0.11799
-0.20300	-0.12086
-0.19800	-0.12357
-0.19300	-0.11507
-0.18800	-0.098420
-0.18300	-0.085480
-0.17800	-0.076930
-0.17300	-0.066040
-0.16800	-0.053200
-0.16300	-0.044180
-0.15800	-0.036530

E (V)	i (nA)
-0.15300	-0.022840
-0.14800	-0.0059000
-0.14300	0.0074400
-0.13800	0.016730
-0.13300	0.028670
-0.12800	0.047420
-0.12300	0.063920
-0.11800	0.075340
-0.11300	0.091890
-0.10800	0.11176
-0.10300	0.12295
-0.098000	0.12802
-0.093000	0.13720
-0.088000	0.14886
-0.083000	0.15671
-0.078000	0.16063
-0.073000	0.16567
-0.068000	0.17292
-0.063000	0.17681
-0.058000	0.17731
-0.053000	0.18064
-0.048000	0.18642
-0.043000	0.18838
-0.038000	0.18649
-0.033000	0.18753
-0.028000	0.19198
-0.023000	0.19296
-0.018000	0.19023
-0.013000	0.19054
-0.0080000	0.19367
-0.0030000	0.19287
0.0020000	0.18893
0.0070000	0.18870
0.012000	0.19191
0.017000	0.19272

E (V)	i (nA)
0.022000	0.19067
0.027000	0.18975
0.032000	0.19052
0.037000	0.18891
0.042000	0.18492
0.047000	0.18500
0.052000	0.18845
0.057000	0.18841
0.062000	0.18493
0.067000	0.18433
0.072000	0.18734
0.077000	0.18720
0.082000	0.18382
0.087000	0.18406
0.092000	0.18726
0.097000	0.18673
0.10200	0.18386
0.10700	0.18420
0.11200	0.18703
0.11700	0.18686
0.12200	0.18344
0.12700	0.18333
0.13200	0.18659
0.13700	0.18671
0.14200	0.18330
0.14700	0.18416
0.15200	0.18781
0.15700	0.18594
0.16200	0.18126
0.16700	0.18155
0.17200	0.18565
0.17700	0.18551
0.18200	0.18214
0.18700	0.18194
0.19200	0.18618

E (V)	i (nA)
0.19700	0.18351
0.19800	0.17591
0.19300	0.16939
0.18800	0.17010
0.18300	0.16974
0.17800	0.16515
0.17300	0.16448
0.16800	0.16733
0.16300	0.16702
0.15800	0.16280
0.15300	0.16262
0.14800	0.16566
0.14300	0.16480
0.13800	0.16092
0.13300	0.16094
0.12800	0.16415
0.12300	0.16372
0.11800	0.16060
0.11300	0.16027
0.10800	0.16217
0.10300	0.16146
0.098000	0.15790
0.093000	0.15737
0.088000	0.16092
0.083000	0.16107
0.078000	0.15706
0.073000	0.15651
0.068000	0.15967
0.063000	0.15938
0.058000	0.15559
0.053000	0.15522
0.048000	0.15812
0.043000	0.15764
0.038000	0.15411
0.033000	0.15397

E (V)	i (nA)
0.028000	0.15651
0.023000	0.15586
0.018000	0.15218
0.013000	0.15130
0.0080000	0.15366
0.0030000	0.15231
-0.0020000	0.14728
-0.0070000	0.14621
-0.012000	0.14845
-0.017000	0.14638
-0.022000	0.14041
-0.027000	0.13785
-0.032000	0.13859
-0.037000	0.13543
-0.042000	0.12844
-0.047000	0.12387
-0.052000	0.12188
-0.057000	0.11620
-0.062000	0.10598
-0.067000	0.097910
-0.072000	0.092220
-0.077000	0.082430
-0.082000	0.068070
-0.087000	0.055650
-0.092000	0.046100
-0.097000	0.032250
-0.10200	0.013890
-0.10700	-0.0013800
-0.11200	-0.013600
-0.11700	-0.029870
-0.12200	-0.049490
-0.12700	-0.065570
-0.13200	-0.078280
-0.13700	-0.094020
-0.14200	-0.11252

E (V)	i (nA)
-0.14700	-0.12683
-0.15200	-0.13698
-0.15700	-0.14946
-0.16200	-0.16457
-0.16700	-0.17527
-0.17200	-0.18110
-0.17700	-0.18949
-0.18200	-0.20051
-0.18700	-0.20699
-0.19200	-0.20911
-0.19700	-0.21388
-0.20200	-0.22087
-0.20700	-0.22393
-0.21200	-0.22389
-0.21700	-0.22650
-0.22200	-0.23133
-0.22700	-0.23272
-0.23200	-0.23049
-0.23700	-0.23097
-0.24200	-0.23452
-0.24700	-0.23460
-0.25200	-0.23119
-0.25700	-0.23098
-0.26200	-0.23422
-0.26700	-0.23354
-0.27200	-0.22950
-0.27700	-0.22969
-0.28200	-0.23299
-0.28700	-0.23208
-0.29200	-0.22836
-0.29700	-0.22815
-0.30200	-0.23075
-0.30700	-0.23051
-0.31200	-0.22658
-0.31700	-0.22606

E (V)	i (nA)
-0.32200	-0.22855
-0.32700	-0.22857
-0.33200	-0.22474
-0.33700	-0.22378
-0.34200	-0.22776
-0.34700	-0.22439

8.3.10 CV-10

E(V)	i(nA)
-0.34800	-0.22033
-0.34300	-0.21156
-0.33800	-0.20658
-0.33300	-0.20496
-0.32800	-0.19930
-0.32300	-0.19782
-0.31800	-0.19934
-0.31300	-0.19734
-0.30800	-0.19293
-0.30300	-0.19101
-0.29800	-0.19329
-0.29300	-0.19232
-0.28800	-0.18718
-0.28300	-0.18534
-0.27800	-0.18755
-0.27300	-0.18599
-0.26800	-0.18060
-0.26300	-0.17906
-0.25800	-0.18108
-0.25300	-0.17905
-0.24800	-0.17320
-0.24300	-0.17097
-0.23800	-0.17156
-0.23300	-0.16853
-0.22800	-0.16219
-0.22300	-0.15837

E(V)	i(nA)
-0.21800	-0.15734
-0.21300	-0.15320
-0.20800	-0.14494
-0.20300	-0.13914
-0.19800	-0.13625
-0.19300	-0.12884
-0.18800	-0.11753
-0.18300	-0.10930
-0.17800	-0.10324
-0.17300	-0.092310
-0.16800	-0.077440
-0.16300	-0.065870
-0.15800	-0.056480
-0.15300	-0.042210
-0.14800	-0.024470
-0.14300	-0.0099200
-0.13800	0.0021900
-0.13300	0.017860
-0.12800	0.037020
-0.12300	0.052990
-0.11800	0.065320
-0.11300	0.080580
-0.10800	0.098760
-0.10300	0.11291
-0.098000	0.12280
-0.093000	0.13484
-0.088000	0.14888
-0.083000	0.15836
-0.078000	0.16362
-0.073000	0.17115
-0.068000	0.18017
-0.063000	0.18493
-0.058000	0.18627
-0.053000	0.18954
-0.048000	0.19480

E(V)	i(nA)
-0.043000	0.19693
-0.038000	0.19543
-0.033000	0.19633
-0.028000	0.20059
-0.023000	0.20093
-0.018000	0.19728
-0.013000	0.19766
-0.0080000	0.20124
-0.0030000	0.20086
0.0020000	0.19734
0.0070000	0.19700
0.012000	0.19992
0.017000	0.19970
0.022000	0.19609
0.027000	0.19573
0.032000	0.19847
0.037000	0.19828
0.042000	0.19488
0.047000	0.19434
0.052000	0.19728
0.057000	0.19706
0.062000	0.19334
0.067000	0.19314
0.072000	0.19635
0.077000	0.19556
0.082000	0.19189
0.087000	0.19221
0.092000	0.19529
0.097000	0.19460
0.10200	0.19122
0.10700	0.19148
0.11200	0.19439
0.11700	0.19388
0.12200	0.19012
0.12700	0.19003

E(V)	i(nA)
0.13200	0.19341
0.13700	0.19337
0.14200	0.18962
0.14700	0.18939
0.15200	0.19304
0.15700	0.19283
0.16200	0.18920
0.16700	0.18933
0.17200	0.19267
0.17700	0.19221
0.18200	0.18950
0.18700	0.18944
0.19200	0.19275
0.19700	0.19085
0.19800	0.17934
0.19300	0.17866
0.18800	0.17576
0.18300	0.17587
0.17800	0.17123
0.17300	0.17076
0.16800	0.17385
0.16300	0.17303
0.15800	0.16910
0.15300	0.16900
0.14800	0.17202
0.14300	0.17123
0.13800	0.16730
0.13300	0.16689
0.12800	0.16987
0.12300	0.16912
0.11800	0.16552
0.11300	0.16520
0.10800	0.16798
0.10300	0.16792
0.098000	0.16431

E(V)	i(nA)
0.093000	0.16369
0.088000	0.16666
0.083000	0.16649
0.078000	0.16272
0.073000	0.16238
0.068000	0.16527
0.063000	0.16444
0.058000	0.16055
0.053000	0.16038
0.048000	0.16296
0.043000	0.16204
0.038000	0.15848
0.033000	0.15814
0.028000	0.16084
0.023000	0.16016
0.018000	0.15598
0.013000	0.15518
0.0080000	0.15806
0.0030000	0.15693
-0.0020000	0.15175
-0.0070000	0.15036
-0.012000	0.15202
-0.017000	0.14982
-0.022000	0.14407
-0.027000	0.14128
-0.032000	0.14152
-0.037000	0.13794
-0.042000	0.13066
-0.047000	0.12589
-0.052000	0.12332
-0.057000	0.11696
-0.062000	0.10637
-0.067000	0.097740
-0.072000	0.091240
-0.077000	0.080230

E(V)	i(nA)
-0.082000	0.064960
-0.087000	0.051880
-0.092000	0.040860
-0.097000	0.025600
-0.10200	0.0061500
-0.10700	-0.010090
-0.11200	-0.023380
-0.11700	-0.041160
-0.12200	-0.061690
-0.12700	-0.078320
-0.13200	-0.092060
-0.13700	-0.10827
-0.14200	-0.12722
-0.14700	-0.14243
-0.15200	-0.15309
-0.15700	-0.16599
-0.16200	-0.18132
-0.16700	-0.19245
-0.17200	-0.19887
-0.17700	-0.20726
-0.18200	-0.21809
-0.18700	-0.22458
-0.19200	-0.22691
-0.19700	-0.23155
-0.20200	-0.23831
-0.20700	-0.24114
-0.21200	-0.24059
-0.21700	-0.24289
-0.22200	-0.24734
-0.22700	-0.24820
-0.23200	-0.24597
-0.23700	-0.24658
-0.24200	-0.25032
-0.24700	-0.25032
-0.25200	-0.24652

E(V)	i(nA)
-0.25700	-0.24635
-0.26200	-0.24944
-0.26700	-0.24876
-0.27200	-0.24458
-0.27700	-0.24396
-0.28200	-0.24694
-0.28700	-0.24621
-0.29200	-0.24241
-0.29700	-0.24216
-0.30200	-0.24473
-0.30700	-0.24460
-0.31200	-0.24103
-0.31700	-0.24050
-0.32200	-0.24328
-0.32700	-0.24278
-0.33200	-0.23934
-0.33700	-0.23875
-0.34200	-0.24230
-0.34700	-0.23922

8.3.11 CV-11

E (V)	i (nA)
-0.34800	-0.23168
-0.34300	-0.22349
-0.33800	-0.22128
-0.33300	-0.21899
-0.32800	-0.21350
-0.32300	-0.21220
-0.31800	-0.21388
-0.31300	-0.21194
-0.30800	-0.20728
-0.30300	-0.20569
-0.29800	-0.20741
-0.29300	-0.20621
-0.28800	-0.20127

E (V)	i (nA)
-0.28300	-0.19934
-0.27800	-0.20141
-0.27300	-0.19991
-0.26800	-0.19462
-0.26300	-0.19293
-0.25800	-0.19449
-0.25300	-0.19240
-0.24800	-0.18696
-0.24300	-0.18460
-0.23800	-0.18505
-0.23300	-0.18201
-0.22800	-0.17573
-0.22300	-0.17223
-0.21800	-0.17113
-0.21300	-0.16658
-0.20800	-0.15816
-0.20300	-0.15216
-0.19800	-0.14894
-0.19300	-0.14161
-0.18800	-0.13016
-0.18300	-0.12159
-0.17800	-0.11553
-0.17300	-0.10453
-0.16800	-0.089320
-0.16300	-0.077080
-0.15800	-0.067170
-0.15300	-0.053120
-0.14800	-0.034920
-0.14300	-0.019090
-0.13800	-0.0060600
-0.13300	0.010280
-0.12800	0.030010
-0.12300	0.047010
-0.11800	0.060440
-0.11300	0.076520

E (V)	i (nA)
-0.10800	0.095690
-0.10300	0.11067
-0.098000	0.12138
-0.093000	0.13461
-0.088000	0.14958
-0.083000	0.15968
-0.078000	0.16598
-0.073000	0.17445
-0.068000	0.18415
-0.063000	0.18959
-0.058000	0.19094
-0.053000	0.19457
-0.048000	0.20084
-0.043000	0.20300
-0.038000	0.20129
-0.033000	0.20246
-0.028000	0.20671
-0.023000	0.20737
-0.018000	0.20404
-0.013000	0.20417
-0.0080000	0.20792
-0.0030000	0.20780
0.0020000	0.20431
0.0070000	0.20408
0.012000	0.20647
0.017000	0.20597
0.022000	0.20261
0.027000	0.20188
0.032000	0.20457
0.037000	0.20434
0.042000	0.20070
0.047000	0.20042
0.052000	0.20332
0.057000	0.20289
0.062000	0.19927

E (V)	i (nA)
0.067000	0.19920
0.072000	0.20226
0.077000	0.20144
0.082000	0.19761
0.087000	0.19759
0.092000	0.20038
0.097000	0.19969
0.10200	0.19663
0.10700	0.19682
0.11200	0.19946
0.11700	0.19907
0.12200	0.19567
0.12700	0.19540
0.13200	0.19857
0.13700	0.19869
0.14200	0.19541
0.14700	0.19501
0.15200	0.19793
0.15700	0.19791
0.16200	0.19447
0.16700	0.19460
0.17200	0.19751
0.17700	0.19706
0.18200	0.19433
0.18700	0.19440
0.19200	0.19791
0.19700	0.19574
0.19800	0.18711
0.19300	0.18322
0.18800	0.18161
0.18300	0.18165
0.17800	0.17688
0.17300	0.17619
0.16800	0.17887
0.16300	0.17807

E (V)	i (nA)
0.15800	0.17390
0.15300	0.17353
0.14800	0.17644
0.14300	0.17574
0.13800	0.17223
0.13300	0.17187
0.12800	0.17455
0.12300	0.17402
0.11800	0.17077
0.11300	0.17043
0.10800	0.17296
0.10300	0.17256
0.098000	0.16873
0.093000	0.16810
0.088000	0.17089
0.083000	0.17038
0.078000	0.16668
0.073000	0.16652
0.068000	0.16942
0.063000	0.16869
0.058000	0.16493
0.053000	0.16487
0.048000	0.16765
0.043000	0.16695
0.038000	0.16357
0.033000	0.16294
0.028000	0.16516
0.023000	0.16452
0.018000	0.16025
0.013000	0.15920
0.0080000	0.16174
0.0030000	0.16040
-0.0020000	0.15550
-0.0070000	0.15430
-0.012000	0.15585

E (V)	i (nA)
-0.017000	0.15344
-0.022000	0.14786
-0.027000	0.14510
-0.032000	0.14456
-0.037000	0.14040
-0.042000	0.13294
-0.047000	0.12771
-0.052000	0.12421
-0.057000	0.11670
-0.062000	0.10555
-0.067000	0.096180
-0.072000	0.088650
-0.077000	0.077000
-0.082000	0.060530
-0.087000	0.046660
-0.092000	0.035200
-0.097000	0.018570
-0.10200	-0.0018100
-0.10700	-0.019130
-0.11200	-0.034120
-0.11700	-0.052760
-0.12200	-0.074250
-0.12700	-0.092290
-0.13200	-0.10693
-0.13700	-0.12387
-0.14200	-0.14329
-0.14700	-0.15894
-0.15200	-0.17031
-0.15700	-0.18347
-0.16200	-0.19866
-0.16700	-0.20962
-0.17200	-0.21603
-0.17700	-0.22482
-0.18200	-0.23575
-0.18700	-0.24171

E (V)	i (nA)
-0.19200	-0.24405
-0.19700	-0.24903
-0.20200	-0.25582
-0.20700	-0.25869
-0.21200	-0.25773
-0.21700	-0.25951
-0.22200	-0.26398
-0.22700	-0.26474
-0.23200	-0.26208
-0.23700	-0.26231
-0.24200	-0.26571
-0.24700	-0.26586
-0.25200	-0.26219
-0.25700	-0.26169
-0.26200	-0.26481
-0.26700	-0.26407
-0.27200	-0.26024
-0.27700	-0.25964
-0.28200	-0.26198
-0.28700	-0.26170
-0.29200	-0.25810
-0.29700	-0.25754
-0.30200	-0.25972
-0.30700	-0.25902
-0.31200	-0.25575
-0.31700	-0.25549
-0.32200	-0.25797
-0.32700	-0.25761
-0.33200	-0.25406
-0.33700	-0.25356
-0.34200	-0.25744
-0.34700	-0.25419

8.3.12 CV-12

E (V)	i (nA)
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E (V)	i (nA)
-0.34800	-0.24741
-0.34300	-0.23719
-0.33800	-0.23636
-0.33300	-0.23390
-0.32800	-0.22853
-0.32300	-0.22681
-0.31800	-0.22798
-0.31300	-0.22652
-0.30800	-0.22178
-0.30300	-0.21995
-0.29800	-0.22147
-0.29300	-0.22031
-0.28800	-0.21547
-0.28300	-0.21315
-0.27800	-0.21489
-0.27300	-0.21363
-0.26800	-0.20864
-0.26300	-0.20672
-0.25800	-0.20799
-0.25300	-0.20581
-0.24800	-0.20056
-0.24300	-0.19842
-0.23800	-0.19852
-0.23300	-0.19529
-0.22800	-0.18923
-0.22300	-0.18561
-0.21800	-0.18443
-0.21300	-0.17996
-0.20800	-0.17156
-0.20300	-0.16548
-0.19800	-0.16213
-0.19300	-0.15481
-0.18800	-0.14334
-0.18300	-0.13426
-0.17800	-0.12769

E (V)	i (nA)
-0.17300	-0.11674
-0.16800	-0.10151
-0.16300	-0.088820
-0.15800	-0.077960
-0.15300	-0.063110
-0.14800	-0.044880
-0.14300	-0.028460
-0.13800	-0.014330
-0.13300	0.0029200
-0.12800	0.023640
-0.12300	0.041610
-0.11800	0.056220
-0.11300	0.073400
-0.10800	0.093520
-0.10300	0.10963
-0.098000	0.12145
-0.093000	0.13588
-0.088000	0.15177
-0.083000	0.16261
-0.078000	0.16959
-0.073000	0.17874
-0.068000	0.18933
-0.063000	0.19518
-0.058000	0.19707
-0.053000	0.20121
-0.048000	0.20762
-0.043000	0.21049
-0.038000	0.20909
-0.033000	0.20997
-0.028000	0.21428
-0.023000	0.21503
-0.018000	0.21192
-0.013000	0.21219
-0.0080000	0.21507
-0.0030000	0.21479

E (V)	i (nA)
0.0020000	0.21189
0.0070000	0.21116
0.012000	0.21357
0.017000	0.21338
0.022000	0.20995
0.027000	0.20953
0.032000	0.21185
0.037000	0.21127
0.042000	0.20785
0.047000	0.20746
0.052000	0.21016
0.057000	0.20962
0.062000	0.20603
0.067000	0.20589
0.072000	0.20864
0.077000	0.20807
0.082000	0.20473
0.087000	0.20458
0.092000	0.20725
0.097000	0.20682
0.10200	0.20376
0.10700	0.20347
0.11200	0.20590
0.11700	0.20584
0.12200	0.20267
0.12700	0.20199
0.13200	0.20503
0.13700	0.20551
0.14200	0.20224
0.14700	0.20199
0.15200	0.20503
0.15700	0.20482
0.16200	0.20152
0.16700	0.20176
0.17200	0.20462

E (V)	i (nA)
0.17700	0.20442
0.18200	0.20127
0.18700	0.20114
0.19200	0.20463
0.19700	0.20189
0.19800	0.19463
0.19300	0.19301
0.18800	0.18701
0.18300	0.18780
0.17800	0.18324
0.17300	0.18232
0.16800	0.18494
0.16300	0.18420
0.15800	0.18040
0.15300	0.17973
0.14800	0.18246
0.14300	0.18132
0.13800	0.17824
0.13300	0.17778
0.12800	0.17980
0.12300	0.17957
0.11800	0.17668
0.11300	0.17630
0.10800	0.17880
0.10300	0.17863
0.098000	0.17511
0.093000	0.17446
0.088000	0.17690
0.083000	0.17613
0.078000	0.17233
0.073000	0.17226
0.068000	0.17493
0.063000	0.17431
0.058000	0.17092
0.053000	0.17058

E (V)	i (nA)
0.048000	0.17319
0.043000	0.17246
0.038000	0.16920
0.033000	0.16866
0.028000	0.17070
0.023000	0.17025
0.018000	0.16652
0.013000	0.16506
0.0080000	0.16677
0.0030000	0.16577
-0.0020000	0.16103
-0.0070000	0.15910
-0.012000	0.16037
-0.017000	0.15773
-0.022000	0.15204
-0.027000	0.14944
-0.032000	0.14837
-0.037000	0.14408
-0.042000	0.13698
-0.047000	0.13103
-0.052000	0.12605
-0.057000	0.11728
-0.062000	0.10509
-0.067000	0.094960
-0.072000	0.086720
-0.077000	0.074160
-0.082000	0.057020
-0.087000	0.041520
-0.092000	0.028150
-0.097000	0.011070
-0.10200	-0.0099900
-0.10700	-0.028800
-0.11200	-0.045040
-0.11700	-0.064380
-0.12200	-0.086400

E (V)	i (nA)
-0.12700	-0.10549
-0.13200	-0.12151
-0.13700	-0.13916
-0.14200	-0.15874
-0.14700	-0.17492
-0.15200	-0.18679
-0.15700	-0.20001
-0.16200	-0.21503
-0.16700	-0.22613
-0.17200	-0.23331
-0.17700	-0.24229
-0.18200	-0.25267
-0.18700	-0.25825
-0.19200	-0.26014
-0.19700	-0.26418
-0.20200	-0.26903
-0.20700	-0.27241
-0.21200	-0.27526
-0.21700	-0.27800
-0.22200	-0.28148
-0.22700	-0.28280
-0.23200	-0.28036
-0.23700	-0.27976
-0.24200	-0.28240
-0.24700	-0.28215
-0.25200	-0.27864
-0.25700	-0.27843
-0.26200	-0.28107
-0.26700	-0.28013
-0.27200	-0.27667
-0.27700	-0.27663
-0.28200	-0.27843
-0.28700	-0.27726
-0.29200	-0.27404
-0.29700	-0.27352

E (V)	i (nA)
-0.30200	-0.27511
-0.30700	-0.27433
-0.31200	-0.27128
-0.31700	-0.27057
-0.32200	-0.27310
-0.32700	-0.27235
-0.33200	-0.26888
-0.33700	-0.26775
-0.34200	-0.27092
-0.34700	-0.26868

8.3.13 CV-13

Column 1	Column 2
-0.34800	-0.25828
-0.34300	-0.24373
-0.33800	-0.24765
-0.33300	-0.24342
-0.32800	-0.24346
-0.32300	-0.24812
-0.31800	-0.24854
-0.31300	-0.24401
-0.30800	-0.23782
-0.30300	-0.23630
-0.29800	-0.23783
-0.29300	-0.23713
-0.28800	-0.23252
-0.28300	-0.23073
-0.27800	-0.23175
-0.27300	-0.22957
-0.26800	-0.22479
-0.26300	-0.22306
-0.25800	-0.22401
-0.25300	-0.22104
-0.24800	-0.21557
-0.24300	-0.21316

Column 1	Column 2
-0.23800	-0.21293
-0.23300	-0.20971
-0.22800	-0.20415
-0.22300	-0.20028
-0.21800	-0.19843
-0.21300	-0.19509
-0.20800	-0.18789
-0.20300	-0.18194
-0.19800	-0.17907
-0.19300	-0.17341
-0.18800	-0.16329
-0.18300	-0.15181
-0.17800	-0.13602
-0.17300	-0.11726
-0.16800	-0.11271
-0.16300	-0.11687
-0.15800	-0.10560
-0.15300	-0.084640
-0.14800	-0.065600
-0.14300	-0.047590
-0.13800	-0.030930
-0.13300	-0.012010
-0.12800	0.0095100
-0.12300	0.028150
-0.11800	0.043970
-0.11300	0.062440
-0.10800	0.083140
-0.10300	0.099950
-0.098000	0.11292
-0.093000	0.12745
-0.088000	0.14301
-0.083000	0.15425
-0.078000	0.16099
-0.073000	0.16668
-0.068000	0.17245

Column 1	Column 2
-0.063000	0.17577
-0.058000	0.17736
-0.053000	0.18246
-0.048000	0.19161
-0.043000	0.20306
-0.038000	0.21255
-0.033000	0.21355
-0.028000	0.21085
-0.023000	0.20853
-0.018000	0.20018
-0.013000	0.19061
-0.0080000	0.18878
-0.0030000	0.19130
0.0020000	0.19390
0.0070000	0.19746
0.012000	0.20114
0.017000	0.20171
0.022000	0.19969
0.027000	0.19855
0.032000	0.19891
0.037000	0.19641
0.042000	0.19144
0.047000	0.19183
0.052000	0.19824
0.057000	0.20194
0.062000	0.20077
0.067000	0.20220
0.072000	0.20671
0.077000	0.20794
0.082000	0.20653
0.087000	0.20734
0.092000	0.21007
0.097000	0.21139
0.10200	0.20854
0.10700	0.20587

Column 1	Column 2
0.11200	0.20821
0.11700	0.20906
0.12200	0.20655
0.12700	0.20626
0.13200	0.20961
0.13700	0.21057
0.14200	0.20883
0.14700	0.21110
0.15200	0.21603
0.15700	0.21630
0.16200	0.21291
0.16700	0.21548
0.17200	0.21959
0.17700	0.21998
0.18200	0.21640
0.18700	0.21623
0.19200	0.21858
0.19700	0.21338
0.19800	0.21490
0.19300	0.20763
0.18800	0.19890
0.18300	0.19882
0.17800	0.19340
0.17300	0.19216
0.16800	0.20029
0.16300	0.21088
0.15800	0.22275
0.15300	0.22644
0.14800	0.23017
0.14300	0.23431
0.13800	0.24216
0.13300	0.26288
0.12800	0.27425
0.12300	0.25539
0.11800	0.22267

Column 1	Column 2
0.11300	0.20305
0.10800	0.19035
0.10300	0.17472
0.098000	0.16841
0.093000	0.17360
0.088000	0.17998
0.083000	0.18420
0.078000	0.18695
0.073000	0.19176
0.068000	0.19773
0.063000	0.19779
0.058000	0.19258
0.053000	0.18993
0.048000	0.19098
0.043000	0.19354
0.038000	0.19750
0.033000	0.20202
0.028000	0.21060
0.023000	0.21634
0.018000	0.21933
0.013000	0.22248
0.0080000	0.21539
0.0030000	0.21302
-0.0020000	0.21799
-0.0070000	0.21199
-0.012000	0.20547
-0.017000	0.19515
-0.022000	0.17978
-0.027000	0.13979
-0.032000	0.053070
-0.037000	0.049570
-0.042000	0.13602
-0.047000	0.14966
-0.052000	0.13279
-0.057000	0.13779

Column 1	Column 2
-0.062000	0.12768
-0.067000	0.12122
-0.072000	0.11885
-0.077000	0.11063
-0.082000	0.096840
-0.087000	0.081060
-0.092000	0.067990
-0.097000	0.051180
-0.10200	0.025980
-0.10700	0.0024100
-0.11200	-0.013910
-0.11700	-0.029160
-0.12200	-0.043980
-0.12700	-0.061710
-0.13200	-0.078610
-0.13700	-0.083860
-0.14200	-0.098170
-0.14700	-0.13277
-0.15200	-0.15996
-0.15700	-0.17874
-0.16200	-0.19481
-0.16700	-0.20420
-0.17200	-0.21233
-0.17700	-0.22042
-0.18200	-0.22578
-0.18700	-0.22449
-0.19200	-0.22146
-0.19700	-0.22425
-0.20200	-0.23265
-0.20700	-0.23811
-0.21200	-0.24154
-0.21700	-0.24655
-0.22200	-0.25349
-0.22700	-0.25807
-0.23200	-0.25519

Column 1	Column 2
-0.23700	-0.24938
-0.24200	-0.24544
-0.24700	-0.24380
-0.25200	-0.24044
-0.25700	-0.24138
-0.26200	-0.24170
-0.26700	-0.24339
-0.27200	-0.24218
-0.27700	-0.24492
-0.28200	-0.25038
-0.28700	-0.25662
-0.29200	-0.27651
-0.29700	-0.27992
-0.30200	-0.38197
-0.30700	-0.47342
-0.31200	-0.34292
-0.31700	-0.26855
-0.32200	-0.30780
-0.32700	-0.29254
-0.33200	-0.29427
-0.33700	-0.31722
-0.34200	-0.34199
-0.34700	-0.36099

8.3.14 CV-14

Column 1	Column 2
-0.34800	-0.34692
-0.34300	-0.28902
-0.33800	-0.30494
-0.33300	-0.29176
-0.32800	-0.27576
-0.32300	-0.26838
-0.31800	-0.26805
-0.31300	-0.26812
-0.30800	-0.26089

Column 1	Column 2
-0.30300	-0.25315
-0.29800	-0.25005
-0.29300	-0.25422
-0.28800	-0.25636
-0.28300	-0.25986
-0.27800	-0.26593
-0.27300	-0.26997
-0.26800	-0.27293
-0.26300	-0.27713
-0.25800	-0.28218
-0.25300	-0.28382
-0.24800	-0.28085
-0.24300	-0.27255
-0.23800	-0.26733
-0.23300	-0.26760
-0.22800	-0.26155
-0.22300	-0.25356
-0.21800	-0.25560
-0.21300	-0.25598
-0.20800	-0.24611
-0.20300	-0.23746
-0.19800	-0.23271
-0.19300	-0.22531
-0.18800	-0.21521
-0.18300	-0.20601
-0.17800	-0.19762
-0.17300	-0.18868
-0.16800	-0.17762
-0.16300	-0.16309
-0.15800	-0.15158
-0.15300	-0.14600
-0.14800	-0.13926
-0.14300	-0.13612
-0.13800	-0.13470
-0.13300	-0.12101

Column 1	Column 2
-0.12800	-0.096400
-0.12300	-0.067580
-0.11800	-0.045400
-0.11300	-0.030980
-0.10800	-0.0090900
-0.10300	0.019970
-0.098000	0.042790
-0.093000	0.061080
-0.088000	0.083700
-0.083000	0.10580
-0.078000	0.12308
-0.073000	0.13586
-0.068000	0.14949
-0.063000	0.16755
-0.058000	0.18106
-0.053000	0.19032
-0.048000	0.20062
-0.043000	0.21200
-0.038000	0.22000
-0.033000	0.22015
-0.028000	0.21976
-0.023000	0.21798
-0.018000	0.21229
-0.013000	0.21304
-0.0080000	0.21732
-0.0030000	0.21863
0.0020000	0.22077
0.0070000	0.22567
0.012000	0.23194
0.017000	0.23643
0.022000	0.23837
0.027000	0.23898
0.032000	0.24033
0.037000	0.24069
0.042000	0.23840

Column 1	Column 2
0.047000	0.23722
0.052000	0.23853
0.057000	0.23884
0.062000	0.23723
0.067000	0.23859
0.072000	0.24115
0.077000	0.24078
0.082000	0.23946
0.087000	0.24145
0.092000	0.24607
0.097000	0.24978
0.10200	0.25380
0.10700	0.26088
0.11200	0.27046
0.11700	0.27853
0.12200	0.28482
0.12700	0.29195
0.13200	0.30284
0.13700	0.31185
0.14200	0.31737
0.14700	0.32148
0.15200	0.31959
0.15700	0.31152
0.16200	0.30087
0.16700	0.29249
0.17200	0.28220
0.17700	0.27531
0.18200	0.26959
0.18700	0.27064
0.19200	0.27259
0.19700	0.26206
0.19800	0.26890
0.19300	0.26402
0.18800	0.25062
0.18300	0.25949

Column 1	Column 2
0.17800	0.25909
0.17300	0.25839
0.16800	0.25629
0.16300	0.24763
0.15800	0.24510
0.15300	0.24518
0.14800	0.24163
0.14300	0.24198
0.13800	0.25038
0.13300	0.25091
0.12800	0.25165
0.12300	0.25387
0.11800	0.24247
0.11300	0.23256
0.10800	0.24105
0.10300	0.25002
0.098000	0.24109
0.093000	0.24251
0.088000	0.25579
0.083000	0.24502
0.078000	0.22259
0.073000	0.20646
0.068000	0.19414
0.063000	0.18128
0.058000	0.14611
0.053000	0.11832
0.048000	0.13667
0.043000	0.15056
0.038000	0.14069
0.033000	0.14631
0.028000	0.16561
0.023000	0.17791
0.018000	0.17799
0.013000	0.17448
0.0080000	0.17334

Column 1	Column 2
0.0030000	0.16783
-0.0020000	0.15885
-0.0070000	0.15812
-0.012000	0.16800
-0.017000	0.17584
-0.022000	0.17622
-0.027000	0.17997
-0.032000	0.18699
-0.037000	0.19050
-0.042000	0.20221
-0.047000	0.22014
-0.052000	0.23274
-0.057000	0.23946
-0.062000	0.23394
-0.067000	0.22287
-0.072000	0.20940
-0.077000	0.18442
-0.082000	0.15298
-0.087000	0.12544
-0.092000	0.10483
-0.097000	0.081000
-0.10200	0.044590
-0.10700	-0.0091100
-0.11200	-0.069410
-0.11700	-0.10750
-0.12200	-0.12860
-0.12700	-0.15369
-0.13200	-0.17326
-0.13700	-0.19792
-0.14200	-0.23970
-0.14700	-0.25921
-0.15200	-0.25457
-0.15700	-0.26712
-0.16200	-0.29121
-0.16700	-0.30488

Column 1	Column 2
-0.17200	-0.31816
-0.17700	-0.33636
-0.18200	-0.34679
-0.18700	-0.35969
-0.19200	-0.37292
-0.19700	-0.36566
-0.20200	-0.35100
-0.20700	-0.34349
-0.21200	-0.34060
-0.21700	-0.33724
-0.22200	-0.32758
-0.22700	-0.31563
-0.23200	-0.30907
-0.23700	-0.30526
-0.24200	-0.30353
-0.24700	-0.30248
-0.25200	-0.30394
-0.25700	-0.31750
-0.26200	-0.32828
-0.26700	-0.32909
-0.27200	-0.32804
-0.27700	-0.32403
-0.28200	-0.32105
-0.28700	-0.31646
-0.29200	-0.31241
-0.29700	-0.31699
-0.30200	-0.32209
-0.30700	-0.32250
-0.31200	-0.32470
-0.31700	-0.33299
-0.32200	-0.34433
-0.32700	-0.35416
-0.33200	-0.36693
-0.33700	-0.37480
-0.34200	-0.37653

Column 1	Column 2
-0.34700	-0.36703

8.3.15 CV-15

Column 1	Column 2
-0.34800	-0.33835
-0.34300	-0.30134
-0.33800	-0.32341
-0.33300	-0.30983
-0.32800	-0.29971
-0.32300	-0.28583
-0.31800	-0.27385
-0.31300	-0.25484
-0.30800	-0.23860
-0.30300	-0.24450
-0.29800	-0.25070
-0.29300	-0.24951
-0.28800	-0.25359
-0.28300	-0.26306
-0.27800	-0.27249
-0.27300	-0.27656
-0.26800	-0.27004
-0.26300	-0.26338
-0.25800	-0.26541
-0.25300	-0.28120
-0.24800	-0.28909
-0.24300	-0.27379
-0.23800	-0.27085
-0.23300	-0.27147
-0.22800	-0.25002
-0.22300	-0.22765
-0.21800	-0.21467
-0.21300	-0.20765
-0.20800	-0.20602
-0.20300	-0.20856
-0.19800	-0.21743

Column 1	Column 2
-0.19300	-0.21888
-0.18800	-0.21042
-0.18300	-0.20935
-0.17800	-0.20701
-0.17300	-0.19877
-0.16800	-0.19041
-0.16300	-0.17837
-0.15800	-0.16177
-0.15300	-0.14258
-0.14800	-0.12246
-0.14300	-0.10363
-0.13800	-0.096390
-0.13300	-0.10216
-0.12800	-0.10684
-0.12300	-0.063430
-0.11800	0.043970
-0.11300	0.12080
-0.10800	0.13997
-0.10300	0.16553
-0.098000	0.18642
-0.093000	0.19874
-0.088000	0.21891
-0.083000	0.22395
-0.078000	0.21929
-0.073000	0.22170
-0.068000	0.22665
-0.063000	0.23413
-0.058000	0.24411
-0.053000	0.25203
-0.048000	0.25681
-0.043000	0.25534
-0.038000	0.25210
-0.033000	0.25030
-0.028000	0.25038
-0.023000	0.24791

Column 1	Column 2
-0.018000	0.24734
-0.013000	0.25093
-0.0080000	0.26196
-0.0030000	0.34871
0.0020000	0.42450
0.0070000	0.36591
0.012000	0.30833
0.017000	0.30626
0.022000	0.30030
0.027000	0.29660
0.032000	0.29076
0.037000	0.28537
0.042000	0.28194
0.047000	0.28186
0.052000	0.28854
0.057000	0.29474
0.062000	0.29224
0.067000	0.28166
0.072000	0.26930
0.077000	0.25939
0.082000	0.25663
0.087000	0.25151
0.092000	0.21604
0.097000	0.11825
0.10200	0.013130
0.10700	-7.3961E-4
0.11200	0.035050
0.11700	0.038880
0.12200	0.037350
0.12700	0.051560
0.13200	0.055850
0.13700	0.056100
0.14200	0.064160
0.14700	0.067390
0.15200	0.070130

Column 1	Column 2
0.15700	0.078380
0.16200	0.081060
0.16700	0.081270
0.17200	0.084100
0.17700	0.092370
0.18200	0.099410
0.18700	0.093620
0.19200	0.094510
0.19700	0.12194
0.19800	0.12437
0.19300	0.12463
0.18800	0.10374
0.18300	0.11304
0.17800	0.11791
0.17300	0.12649
0.16800	0.13801
0.16300	0.14806
0.15800	0.15785
0.15300	0.16542
0.14800	0.17401
0.14300	0.17976
0.13800	0.18448
0.13300	0.18980
0.12800	0.19477
0.12300	0.19648
0.11800	0.19311
0.11300	0.18553
0.10800	0.18373
0.10300	0.19622
0.098000	0.21153
0.093000	0.22226
0.088000	0.22801
0.083000	0.21337
0.078000	0.19363
0.073000	0.20134

Column 1	Column 2
0.068000	0.22014
0.063000	0.22816
0.058000	0.22151
0.053000	0.21362
0.048000	0.21842
0.043000	0.22358
0.038000	0.22305
0.033000	0.22130
0.028000	0.21998
0.023000	0.21643
0.018000	0.21268
0.013000	0.21253
0.0080000	0.20937
0.0030000	0.20121
-0.0020000	0.19647
-0.0070000	0.19665
-0.012000	0.19244
-0.017000	0.18605
-0.022000	0.18471
-0.027000	0.18217
-0.032000	0.17353
-0.037000	0.16276
-0.042000	0.15059
-0.047000	0.13325
-0.052000	0.11196
-0.057000	0.094620
-0.062000	0.087220
-0.067000	0.085020
-0.072000	0.079320
-0.077000	0.067120
-0.082000	0.051620
-0.087000	0.037030
-0.092000	0.020610
-0.097000	7.5561E-4
-0.10200	-0.019310

Column 1	Column 2
-0.10700	-0.040320
-0.11200	-0.062510
-0.11700	-0.084950
-0.12200	-0.10837
-0.12700	-0.13224
-0.13200	-0.15511
-0.13700	-0.17584
-0.14200	-0.19598
-0.14700	-0.21492
-0.15200	-0.23036
-0.15700	-0.24381
-0.16200	-0.25670
-0.16700	-0.26827
-0.17200	-0.27809
-0.17700	-0.28758
-0.18200	-0.29675
-0.18700	-0.30449
-0.19200	-0.31048
-0.19700	-0.31388
-0.20200	-0.31495
-0.20700	-0.31643
-0.21200	-0.31892
-0.21700	-0.32085
-0.22200	-0.32156
-0.22700	-0.32037
-0.23200	-0.31866
-0.23700	-0.31684
-0.24200	-0.31499
-0.24700	-0.31254
-0.25200	-0.30998
-0.25700	-0.30902
-0.26200	-0.30731
-0.26700	-0.30408
-0.27200	-0.30080
-0.27700	-0.29868

Column 1	Column 2
-0.28200	-0.29713
-0.28700	-0.29551
-0.29200	-0.29285
-0.29700	-0.29005
-0.30200	-0.28896
-0.30700	-0.29221
-0.31200	-0.28606
-0.31700	-0.26576
-0.32200	-0.26156
-0.32700	-0.27044
-0.33200	-0.27587
-0.33700	-0.27725
-0.34200	-0.28180
-0.34700	-0.28134

8.3.16 CV-16

Column 1	Column 2
-0.34800	-0.26853
-0.34300	-0.24420
-0.33800	-0.26233
-0.33300	-0.25860
-0.32800	-0.26040
-0.32300	-0.26130
-0.31800	-0.25923
-0.31300	-0.25911
-0.30800	-0.25738
-0.30300	-0.25658
-0.29800	-0.25465
-0.29300	-0.25257
-0.28800	-0.24991
-0.28300	-0.24678
-0.27800	-0.24530
-0.27300	-0.24295
-0.26800	-0.24239
-0.26300	-0.24305

Column 1	Column 2
-0.25800	-0.24559
-0.25300	-0.25396
-0.24800	-0.26002
-0.24300	-0.31011
-0.23800	-0.33285
-0.23300	-0.25569
-0.22800	-0.22382
-0.22300	-0.23413
-0.21800	-0.21683
-0.21300	-0.20431
-0.20800	-0.19178
-0.20300	-0.18319
-0.19800	-0.17728
-0.19300	-0.17150
-0.18800	-0.16510
-0.18300	-0.15655
-0.17800	-0.14731
-0.17300	-0.13370
-0.16800	-0.12019
-0.16300	-0.10634
-0.15800	-0.091050
-0.15300	-0.073080
-0.14800	-0.053930
-0.14300	-0.033430
-0.13800	-0.011270
-0.13300	0.011890
-0.12800	0.036550
-0.12300	0.060170
-0.11800	0.082670
-0.11300	0.10522
-0.10800	0.12670
-0.10300	0.14596
-0.098000	0.16544
-0.093000	0.18455
-0.088000	0.20063

Column 1	Column 2
-0.083000	0.21338
-0.078000	0.22513
-0.073000	0.23616
-0.068000	0.24551
-0.063000	0.25378
-0.058000	0.26029
-0.053000	0.26479
-0.048000	0.26740
-0.043000	0.26896
-0.038000	0.26850
-0.033000	0.26692
-0.028000	0.26518
-0.023000	0.26341
-0.018000	0.26151
-0.013000	0.27127
-0.0080000	0.29490
-0.0030000	0.29753
0.0020000	0.27281
0.0070000	0.25364
0.012000	0.24967
0.017000	0.24950
0.022000	0.24817
0.027000	0.24529
0.032000	0.24482
0.037000	0.25196
0.042000	0.26219
0.047000	0.26747
0.052000	0.26596
0.057000	0.26761
0.062000	0.27474
0.067000	0.27989
0.072000	0.28351
0.077000	0.28113
0.082000	0.27122
0.087000	0.26049

Column 1	Column 2
0.092000	0.24206
0.097000	0.21926
0.10200	0.21191
0.10700	0.20485
0.11200	0.17444
0.11700	0.15967
0.12200	0.17446
0.12700	0.17377
0.13200	0.16875
0.13700	0.17107
0.14200	0.17042
0.14700	0.17405
0.15200	0.17905
0.15700	0.18611
0.16200	0.19238
0.16700	0.19809
0.17200	0.20220
0.17700	0.20777
0.18200	0.20878
0.18700	0.21120
0.19200	0.21537
0.19700	0.21256
0.19800	0.22563
0.19300	0.22781
0.18800	0.20125
0.18300	0.20604
0.17800	0.20208
0.17300	0.20108
0.16800	0.20375
0.16300	0.20223
0.15800	0.20185
0.15300	0.19896
0.14800	0.19923
0.14300	0.19930
0.13800	0.19907

Column 1	Column 2
0.13300	0.19621
0.12800	0.19577
0.12300	0.19660
0.11800	0.19652
0.11300	0.19880
0.10800	0.20089
0.10300	0.20200
0.098000	0.20242
0.093000	0.20387
0.088000	0.20535
0.083000	0.20800
0.078000	0.21113
0.073000	0.21255
0.068000	0.21159
0.063000	0.21000
0.058000	0.20970
0.053000	0.20892
0.048000	0.20786
0.043000	0.20720
0.038000	0.20685
0.033000	0.20634
0.028000	0.20699
0.023000	0.21243
0.018000	0.21751
0.013000	0.21333
0.0080000	0.20559
0.0030000	0.19962
-0.0020000	0.19346
-0.0070000	0.18790
-0.012000	0.18270
-0.017000	0.17801
-0.022000	0.17380
-0.027000	0.16993
-0.032000	0.16495
-0.037000	0.15882

Column 1	Column 2
-0.042000	0.15260
-0.047000	0.14497
-0.052000	0.13588
-0.057000	0.12541
-0.062000	0.11356
-0.067000	0.10040
-0.072000	0.085910
-0.077000	0.068940
-0.082000	0.049650
-0.087000	0.030020
-0.092000	0.0099400
-0.097000	-0.011490
-0.10200	-0.033880
-0.10700	-0.056810
-0.11200	-0.081600
-0.11700	-0.10605
-0.12200	-0.13004
-0.12700	-0.15386
-0.13200	-0.17700
-0.13700	-0.20097
-0.14200	-0.22612
-0.14700	-0.25923
-0.15200	-0.28213
-0.15700	-0.27748
-0.16200	-0.27788
-0.16700	-0.29409
-0.17200	-0.30641
-0.17700	-0.31482
-0.18200	-0.32126
-0.18700	-0.32578
-0.19200	-0.32932
-0.19700	-0.33224
-0.20200	-0.33521
-0.20700	-0.33736
-0.21200	-0.33887

Column 1	Column 2
-0.21700	-0.34045
-0.22200	-0.34328
-0.22700	-0.34467
-0.23200	-0.34497
-0.23700	-0.34654
-0.24200	-0.34824
-0.24700	-0.34703
-0.25200	-0.34471
-0.25700	-0.34411
-0.26200	-0.34313
-0.26700	-0.34221
-0.27200	-0.34083
-0.27700	-0.34034
-0.28200	-0.33854
-0.28700	-0.33733
-0.29200	-0.33653
-0.29700	-0.33484
-0.30200	-0.33434
-0.30700	-0.33361
-0.31200	-0.33388
-0.31700	-0.33202
-0.32200	-0.33256
-0.32700	-0.33049
-0.33200	-0.33133
-0.33700	-0.33000
-0.34200	-0.32925
-0.34700	-0.33123

8.3.17 CV-17

Column 1	Column 2
-0.34800	-0.30269
-0.34300	-0.29107
-0.33800	-0.31219
-0.33300	-0.30356
-0.32800	-0.30215

Column 1	Column 2
-0.32300	-0.30108
-0.31800	-0.29782
-0.31300	-0.29749
-0.30800	-0.29382
-0.30300	-0.29272
-0.29800	-0.29048
-0.29300	-0.28953
-0.28800	-0.28745
-0.28300	-0.28676
-0.27800	-0.28553
-0.27300	-0.28364
-0.26800	-0.28220
-0.26300	-0.28011
-0.25800	-0.27822
-0.25300	-0.27569
-0.24800	-0.27415
-0.24300	-0.27177
-0.23800	-0.26920
-0.23300	-0.26612
-0.22800	-0.26260
-0.22300	-0.25897
-0.21800	-0.25495
-0.21300	-0.25064
-0.20800	-0.24546
-0.20300	-0.23943
-0.19800	-0.23244
-0.19300	-0.22379
-0.18800	-0.21350
-0.18300	-0.20318
-0.17800	-0.19137
-0.17300	-0.17767
-0.16800	-0.16205
-0.16300	-0.14567
-0.15800	-0.12934
-0.15300	-0.11150

Column 1	Column 2
-0.14800	-0.092390
-0.14300	-0.070910
-0.13800	-0.047290
-0.13300	-0.022920
-0.12800	0.0013100
-0.12300	0.024800
-0.11800	0.047670
-0.11300	0.070980
-0.10800	0.094210
-0.10300	0.11621
-0.098000	0.13824
-0.093000	0.15970
-0.088000	0.17884
-0.083000	0.19620
-0.078000	0.21191
-0.073000	0.22478
-0.068000	0.23652
-0.063000	0.24674
-0.058000	0.25426
-0.053000	0.26031
-0.048000	0.26564
-0.043000	0.27120
-0.038000	0.27490
-0.033000	0.27665
-0.028000	0.27834
-0.023000	0.27899
-0.018000	0.27903
-0.013000	0.27946
-0.0080000	0.27893
-0.0030000	0.27798
0.0020000	0.27759
0.0070000	0.27640
0.012000	0.27493
0.017000	0.27358
0.022000	0.27265

Column 1	Column 2
0.027000	0.27167
0.032000	0.27087
0.037000	0.27027
0.042000	0.26944
0.047000	0.26900
0.052000	0.26824
0.057000	0.26675
0.062000	0.26489
0.067000	0.26402
0.072000	0.26317
0.077000	0.26237
0.082000	0.26189
0.087000	0.26182
0.092000	0.26144
0.097000	0.26095
0.10200	0.26034
0.10700	0.25858
0.11200	0.25843
0.11700	0.25838
0.12200	0.25845
0.12700	0.25747
0.13200	0.25633
0.13700	0.25566
0.14200	0.25547
0.14700	0.25548
0.15200	0.25488
0.15700	0.25418
0.16200	0.25284
0.16700	0.25501
0.17200	0.25312
0.17700	0.25390
0.18200	0.25329
0.18700	0.25518
0.19200	0.25758
0.19700	0.25070

Column 1	Column 2
0.19800	0.26735
0.19300	0.26240
0.18800	0.23717
0.18300	0.24187
0.17800	0.23943
0.17300	0.23803
0.16800	0.23901
0.16300	0.23727
0.15800	0.23742
0.15300	0.23596
0.14800	0.23675
0.14300	0.23562
0.13800	0.23624
0.13300	0.23670
0.12800	0.23694
0.12300	0.23789
0.11800	0.23848
0.11300	0.23905
0.10800	0.24059
0.10300	0.24396
0.098000	0.24470
0.093000	0.24210
0.088000	0.23738
0.083000	0.23302
0.078000	0.22964
0.073000	0.22742
0.068000	0.22519
0.063000	0.22210
0.058000	0.22023
0.053000	0.21949
0.048000	0.21920
0.043000	0.21899
0.038000	0.21881
0.033000	0.21832
0.028000	0.21779

Column 1	Column 2
0.023000	0.21662
0.018000	0.21467
0.013000	0.21295
0.0080000	0.21178
0.0030000	0.21029
-0.0020000	0.20740
-0.0070000	0.20398
-0.012000	0.20030
-0.017000	0.19597
-0.022000	0.19092
-0.027000	0.18546
-0.032000	0.17893
-0.037000	0.17114
-0.042000	0.16308
-0.047000	0.15315
-0.052000	0.14215
-0.057000	0.12986
-0.062000	0.11569
-0.067000	0.10053
-0.072000	0.083200
-0.077000	0.063630
-0.082000	0.032080
-0.087000	-0.0010300
-0.092000	-0.014150
-0.097000	-0.025360
-0.10200	-0.047760
-0.10700	-0.074060
-0.11200	-0.10062
-0.11700	-0.12492
-0.12200	-0.14967
-0.12700	-0.17467
-0.13200	-0.19862
-0.13700	-0.22065
-0.14200	-0.24066
-0.14700	-0.25974

Column 1	Column 2
-0.15200	-0.27732
-0.15700	-0.29311
-0.16200	-0.30676
-0.16700	-0.31857
-0.17200	-0.32871
-0.17700	-0.33856
-0.18200	-0.34673
-0.18700	-0.35301
-0.19200	-0.35852
-0.19700	-0.36244
-0.20200	-0.36510
-0.20700	-0.36686
-0.21200	-0.36819
-0.21700	-0.36795
-0.22200	-0.36722
-0.22700	-0.36676
-0.23200	-0.36616
-0.23700	-0.36545
-0.24200	-0.36529
-0.24700	-0.36472
-0.25200	-0.36405
-0.25700	-0.36464
-0.26200	-0.36414
-0.26700	-0.36312
-0.27200	-0.36192
-0.27700	-0.36168
-0.28200	-0.36028
-0.28700	-0.35873
-0.29200	-0.35779
-0.29700	-0.35730
-0.30200	-0.35671
-0.30700	-0.35483
-0.31200	-0.35470
-0.31700	-0.35281
-0.32200	-0.35297

Column 1	Column 2
-0.32700	-0.35085
-0.33200	-0.35087
-0.33700	-0.34896
-0.34200	-0.34792
-0.34700	-0.34937

8.3.18 CV-18

Column 1	Column 2
-0.34800	-0.32360
-0.34300	-0.31778
-0.33800	-0.32982
-0.33300	-0.32338
-0.32800	-0.32160
-0.32300	-0.32036
-0.31800	-0.31768
-0.31300	-0.31696
-0.30800	-0.31412
-0.30300	-0.31314
-0.29800	-0.31133
-0.29300	-0.31028
-0.28800	-0.30772
-0.28300	-0.30587
-0.27800	-0.30459
-0.27300	-0.30272
-0.26800	-0.30174
-0.26300	-0.30140
-0.25800	-0.30096
-0.25300	-0.29927
-0.24800	-0.29750
-0.24300	-0.29480
-0.23800	-0.29186
-0.23300	-0.28893
-0.22800	-0.28499
-0.22300	-0.27978
-0.21800	-0.27491

Column 1	Column 2
-0.21300	-0.27017
-0.20800	-0.26371
-0.20300	-0.25623
-0.19800	-0.24841
-0.19300	-0.23960
-0.18800	-0.22853
-0.18300	-0.21576
-0.17800	-0.20049
-0.17300	-0.18455
-0.16800	-0.17045
-0.16300	-0.15558
-0.15800	-0.13826
-0.15300	-0.11856
-0.14800	-0.098230
-0.14300	-0.077420
-0.13800	-0.054050
-0.13300	-0.027930
-0.12800	5.6696E-4
-0.12300	0.030160
-0.11800	0.057680
-0.11300	0.082670
-0.10800	0.10719
-0.10300	0.12816
-0.098000	0.14732
-0.093000	0.16922
-0.088000	0.18687
-0.083000	0.20150
-0.078000	0.21914
-0.073000	0.23625
-0.068000	0.25156
-0.063000	0.26389
-0.058000	0.27241
-0.053000	0.27868
-0.048000	0.28524
-0.043000	0.29228

Column 1	Column 2
-0.038000	0.29654
-0.033000	0.29874
-0.028000	0.29972
-0.023000	0.29837
-0.018000	0.29566
-0.013000	0.29384
-0.0080000	0.29270
-0.0030000	0.29117
0.0020000	0.29072
0.0070000	0.29135
0.012000	0.29092
0.017000	0.28891
0.022000	0.28669
0.027000	0.28514
0.032000	0.28410
0.037000	0.28341
0.042000	0.27995
0.047000	0.27035
0.052000	0.26805
0.057000	0.27492
0.062000	0.27407
0.067000	0.27228
0.072000	0.27461
0.077000	0.27401
0.082000	0.27254
0.087000	0.27270
0.092000	0.27297
0.097000	0.27262
0.10200	0.27330
0.10700	0.27388
0.11200	0.27367
0.11700	0.27315
0.12200	0.27295
0.12700	0.27214
0.13200	0.27155

Column 1	Column 2
0.13700	0.27035
0.14200	0.26928
0.14700	0.26846
0.15200	0.26697
0.15700	0.26649
0.16200	0.26504
0.16700	0.26565
0.17200	0.26508
0.17700	0.26561
0.18200	0.26424
0.18700	0.26394
0.19200	0.26419
0.19700	0.25896
0.19800	0.26839
0.19300	0.26474
0.18800	0.25372
0.18300	0.25962
0.17800	0.26005
0.17300	0.26049
0.16800	0.25937
0.16300	0.25696
0.15800	0.25553
0.15300	0.25306
0.14800	0.25168
0.14300	0.25119
0.13800	0.25225
0.13300	0.25268
0.12800	0.25238
0.12300	0.25251
0.11800	0.25214
0.11300	0.25066
0.10800	0.24905
0.10300	0.24730
0.098000	0.24588
0.093000	0.24595

Column 1	Column 2
0.088000	0.24548
0.083000	0.24424
0.078000	0.24302
0.073000	0.24227
0.068000	0.24177
0.063000	0.24094
0.058000	0.23994
0.053000	0.23867
0.048000	0.23713
0.043000	0.23569
0.038000	0.23417
0.033000	0.23255
0.028000	0.23098
0.023000	0.22898
0.018000	0.22660
0.013000	0.22332
0.0080000	0.21940
0.0030000	0.21554
-0.0020000	0.21236
-0.0070000	0.20944
-0.012000	0.20424
-0.017000	0.19841
-0.022000	0.19445
-0.027000	0.19009
-0.032000	0.18407
-0.037000	0.17705
-0.042000	0.16834
-0.047000	0.15750
-0.052000	0.14489
-0.057000	0.13101
-0.062000	0.11610
-0.067000	0.099960
-0.072000	0.081820
-0.077000	0.060970
-0.082000	0.038640

Column 1	Column 2
-0.087000	0.014710
-0.092000	-0.011400
-0.097000	-0.037720
-0.10200	-0.064280
-0.10700	-0.091210
-0.11200	-0.11712
-0.11700	-0.14396
-0.12200	-0.17645
-0.12700	-0.21268
-0.13200	-0.24084
-0.13700	-0.25887
-0.14200	-0.27509
-0.14700	-0.28848
-0.15200	-0.29918
-0.15700	-0.31304
-0.16200	-0.32899
-0.16700	-0.34367
-0.17200	-0.35594
-0.17700	-0.36513
-0.18200	-0.37208
-0.18700	-0.37732
-0.19200	-0.38129
-0.19700	-0.38472
-0.20200	-0.38567
-0.20700	-0.38428
-0.21200	-0.38241
-0.21700	-0.37643
-0.22200	-0.36646
-0.22700	-0.36642
-0.23200	-0.37906
-0.23700	-0.38382
-0.24200	-0.37587
-0.24700	-0.37243
-0.25200	-0.37756
-0.25700	-0.38050

Column 1	Column 2
-0.26200	-0.37982
-0.26700	-0.38015
-0.27200	-0.38065
-0.27700	-0.38063
-0.28200	-0.37902
-0.28700	-0.37825
-0.29200	-0.37938
-0.29700	-0.37961
-0.30200	-0.37900
-0.30700	-0.37800
-0.31200	-0.37602
-0.31700	-0.37295
-0.32200	-0.36937
-0.32700	-0.36447
-0.33200	-0.36082
-0.33700	-0.35716
-0.34200	-0.35424
-0.34700	-0.34816

8.3.19 CV-19

Column 1	Column 2
-0.34800	-0.34091
-0.34300	-0.34016
-0.33800	-0.32247
-0.33300	-0.33573
-0.32800	-0.35645
-0.32300	-0.35843
-0.31800	-0.35570
-0.31300	-0.35609
-0.30800	-0.35135
-0.30300	-0.34653
-0.29800	-0.34195
-0.29300	-0.33753
-0.28800	-0.33416
-0.28300	-0.33188

Column 1	Column 2
-0.27800	-0.33018
-0.27300	-0.32730
-0.26800	-0.32478
-0.26300	-0.32206
-0.25800	-0.31925
-0.25300	-0.31632
-0.24800	-0.31331
-0.24300	-0.31022
-0.23800	-0.30657
-0.23300	-0.30253
-0.22800	-0.29778
-0.22300	-0.29305
-0.21800	-0.28863
-0.21300	-0.28307
-0.20800	-0.27561
-0.20300	-0.26780
-0.19800	-0.25938
-0.19300	-0.25049
-0.18800	-0.24170
-0.18300	-0.23191
-0.17800	-0.22055
-0.17300	-0.20775
-0.16800	-0.19364
-0.16300	-0.17735
-0.15800	-0.15841
-0.15300	-0.13721
-0.14800	-0.11475
-0.14300	-0.091120
-0.13800	-0.066430
-0.13300	-0.040970
-0.12800	-0.014520
-0.12300	0.011980
-0.11800	0.038060
-0.11300	0.064370
-0.10800	0.090480

Column 1	Column 2
-0.10300	0.11537
-0.098000	0.13941
-0.093000	0.16262
-0.088000	0.18450
-0.083000	0.20474
-0.078000	0.22295
-0.073000	0.23910
-0.068000	0.25319
-0.063000	0.26543
-0.058000	0.27575
-0.053000	0.28396
-0.048000	0.29090
-0.043000	0.29665
-0.038000	0.30056
-0.033000	0.30409
-0.028000	0.30649
-0.023000	0.30743
-0.018000	0.30857
-0.013000	0.30950
-0.0080000	0.30977
-0.0030000	0.30929
0.0020000	0.30895
0.0070000	0.30867
0.012000	0.30820
0.017000	0.30770
0.022000	0.30672
0.027000	0.30580
0.032000	0.30553
0.037000	0.30502
0.042000	0.30377
0.047000	0.30307
0.052000	0.30270
0.057000	0.30172
0.062000	0.30060
0.067000	0.30009

Column 1	Column 2
0.072000	0.29910
0.077000	0.29812
0.082000	0.29790
0.087000	0.29732
0.092000	0.29630
0.097000	0.29587
0.10200	0.29729
0.10700	0.29954
0.11200	0.30398
0.11700	0.30614
0.12200	0.30340
0.12700	0.30477
0.13200	0.30719
0.13700	0.30045
0.14200	0.29124
0.14700	0.28760
0.15200	0.27820
0.15700	0.27555
0.16200	0.29683
0.16700	0.31114
0.17200	0.30562
0.17700	0.29668
0.18200	0.28365
0.18700	0.27648
0.19200	0.28291
0.19700	0.28132
0.19800	0.27620
0.19300	0.27087
0.18800	0.26771
0.18300	0.26775
0.17800	0.26569
0.17300	0.26540
0.16800	0.26410
0.16300	0.26293
0.15800	0.26172

Column 1	Column 2
0.15300	0.26222
0.14800	0.26113
0.14300	0.25996
0.13800	0.25915
0.13300	0.25830
0.12800	0.25772
0.12300	0.25665
0.11800	0.25570
0.11300	0.25508
0.10800	0.25465
0.10300	0.25389
0.098000	0.25315
0.093000	0.25239
0.088000	0.25191
0.083000	0.25072
0.078000	0.24976
0.073000	0.25014
0.068000	0.24967
0.063000	0.24899
0.058000	0.24891
0.053000	0.24779
0.048000	0.24643
0.043000	0.24597
0.038000	0.24490
0.033000	0.24327
0.028000	0.24143
0.023000	0.23915
0.018000	0.23749
0.013000	0.23640
0.0080000	0.23463
0.0030000	0.23189
-0.0020000	0.22856
-0.0070000	0.22521
-0.012000	0.22141
-0.017000	0.21596

Column 1	Column 2
-0.022000	0.21044
-0.027000	0.20469
-0.032000	0.19713
-0.037000	0.18880
-0.042000	0.17913
-0.047000	0.16752
-0.052000	0.15443
-0.057000	0.13972
-0.062000	0.12356
-0.067000	0.10548
-0.072000	0.085430
-0.077000	0.063820
-0.082000	0.040830
-0.087000	0.016670
-0.092000	-0.011320
-0.097000	-0.041130
-0.10200	-0.068140
-0.10700	-0.096460
-0.11200	-0.12766
-0.11700	-0.15715
-0.12200	-0.18396
-0.12700	-0.21047
-0.13200	-0.23634
-0.13700	-0.26029
-0.14200	-0.28285
-0.14700	-0.30312
-0.15200	-0.32121
-0.15700	-0.33828
-0.16200	-0.35309
-0.16700	-0.36463
-0.17200	-0.37457
-0.17700	-0.38285
-0.18200	-0.38883
-0.18700	-0.39370
-0.19200	-0.39889

Column 1	Column 2
-0.19700	-0.40396
-0.20200	-0.40712
-0.20700	-0.41007
-0.21200	-0.41272
-0.21700	-0.41348
-0.22200	-0.41374
-0.22700	-0.41372
-0.23200	-0.41218
-0.23700	-0.40948
-0.24200	-0.40653
-0.24700	-0.40391
-0.25200	-0.40216
-0.25700	-0.40245
-0.26200	-0.40348
-0.26700	-0.40144
-0.27200	-0.39876
-0.27700	-0.39711
-0.28200	-0.39587
-0.28700	-0.39454
-0.29200	-0.39277
-0.29700	-0.39102
-0.30200	-0.39036
-0.30700	-0.39089
-0.31200	-0.38942
-0.31700	-0.38983
-0.32200	-0.39096
-0.32700	-0.39294
-0.33200	-0.39337
-0.33700	-0.39361
-0.34200	-0.39095
-0.34700	-0.37024

8.3.20 CV-20

Column 1	Column 2
-0.34800	-0.36435

Column 1	Column 2
-0.34300	-0.36392
-0.33800	-0.34948
-0.33300	-0.36074
-0.32800	-0.36227
-0.32300	-0.36083
-0.31800	-0.35717
-0.31300	-0.35200
-0.30800	-0.34868
-0.30300	-0.34467
-0.29800	-0.34286
-0.29300	-0.33968
-0.28800	-0.33810
-0.28300	-0.33732
-0.27800	-0.33668
-0.27300	-0.33538
-0.26800	-0.33338
-0.26300	-0.33148
-0.25800	-0.32943
-0.25300	-0.32772
-0.24800	-0.32513
-0.24300	-0.32225
-0.23800	-0.32242
-0.23300	-0.33554
-0.22800	-0.35729
-0.22300	-0.36706
-0.21800	-0.35957
-0.21300	-0.33802
-0.20800	-0.30857
-0.20300	-0.28632
-0.19800	-0.27257
-0.19300	-0.25932
-0.18800	-0.24706
-0.18300	-0.23554
-0.17800	-0.22180
-0.17300	-0.20609

Column 1	Column 2
-0.16800	-0.19000
-0.16300	-0.17338
-0.15800	-0.15454
-0.15300	-0.13476
-0.14800	-0.11303
-0.14300	-0.089030
-0.13800	-0.064390
-0.13300	-0.036370
-0.12800	-0.010230
-0.12300	0.038430
-0.11800	0.10352
-0.11300	0.11226
-0.10800	0.093090
-0.10300	0.12161
-0.098000	0.17305
-0.093000	0.20329
-0.088000	0.22023
-0.083000	0.24193
-0.078000	0.26172
-0.073000	0.27554
-0.068000	0.28760
-0.063000	0.29799
-0.058000	0.30629
-0.053000	0.31171
-0.048000	0.31518
-0.043000	0.31794
-0.038000	0.32096
-0.033000	0.32422
-0.028000	0.32702
-0.023000	0.32779
-0.018000	0.32719
-0.013000	0.32759
-0.0080000	0.32744
-0.0030000	0.32615
0.0020000	0.32589

Column 1	Column 2
0.0070000	0.32611
0.012000	0.32638
0.017000	0.32711
0.022000	0.32735
0.027000	0.32656
0.032000	0.32667
0.037000	0.32771
0.042000	0.32613
0.047000	0.32513
0.052000	0.32690
0.057000	0.32567
0.062000	0.31800
0.067000	0.31122
0.072000	0.31281
0.077000	0.31774
0.082000	0.31327
0.087000	0.29641
0.092000	0.27434
0.097000	0.25849
0.10200	0.26316
0.10700	0.23940
0.11200	0.18746
0.11700	0.19850
0.12200	0.23252
0.12700	0.23510
0.13200	0.24503
0.13700	0.26500
0.14200	0.28345
0.14700	0.30103
0.15200	0.31290
0.15700	0.31621
0.16200	0.31460
0.16700	0.31172
0.17200	0.30914
0.17700	0.30434

Column 1	Column 2
0.18200	0.30088
0.18700	0.29653
0.19200	0.29702
0.19700	0.29777
0.19800	0.28298
0.19300	0.28033
0.18800	0.28268
0.18300	0.28173
0.17800	0.28164
0.17300	0.28087
0.16800	0.27733
0.16300	0.27656
0.15800	0.27467
0.15300	0.27039
0.14800	0.26247
0.14300	0.25593
0.13800	0.25027
0.13300	0.24372
0.12800	0.23602
0.12300	0.22868
0.11800	0.22350
0.11300	0.22291
0.10800	0.22491
0.10300	0.22535
0.098000	0.22583
0.093000	0.22415
0.088000	0.22056
0.083000	0.20532
0.078000	0.18530
0.073000	0.17858
0.068000	0.17830
0.063000	0.18521
0.058000	0.21056
0.053000	0.26907
0.048000	0.35439

Column 1	Column 2
0.043000	0.42352
0.038000	0.43768
0.033000	0.40702
0.028000	0.36600
0.023000	0.32492
0.018000	0.29110
0.013000	0.26570
0.0080000	0.25065
0.0030000	0.25076
-0.0020000	0.25276
-0.0070000	0.25193
-0.012000	0.24690
-0.017000	0.23266
-0.022000	0.20989
-0.027000	0.18611
-0.032000	0.17008
-0.037000	0.15992
-0.042000	0.14921
-0.047000	0.13671
-0.052000	0.12940
-0.057000	0.12090
-0.062000	0.094820
-0.067000	0.059010
-0.072000	0.025340
-0.077000	-0.0086000
-0.082000	-0.036130
-0.087000	-0.054060
-0.092000	-0.072390
-0.097000	-0.093160
-0.10200	-0.11893
-0.10700	-0.14775
-0.11200	-0.17133
-0.11700	-0.19803
-0.12200	-0.22686
-0.12700	-0.25026

Column 1	Column 2
-0.13200	-0.27421
-0.13700	-0.30126
-0.14200	-0.32546
-0.14700	-0.33574
-0.15200	-0.34162
-0.15700	-0.35125
-0.16200	-0.34975
-0.16700	-0.34217
-0.17200	-0.35659
-0.17700	-0.39593
-0.18200	-0.42504
-0.18700	-0.43472
-0.19200	-0.44175
-0.19700	-0.44728
-0.20200	-0.45022
-0.20700	-0.45122
-0.21200	-0.45037
-0.21700	-0.44398
-0.22200	-0.43130
-0.22700	-0.41791
-0.23200	-0.40622
-0.23700	-0.39623
-0.24200	-0.38768
-0.24700	-0.38355
-0.25200	-0.38479
-0.25700	-0.38657
-0.26200	-0.38553
-0.26700	-0.38645
-0.27200	-0.38721
-0.27700	-0.37817
-0.28200	-0.36390
-0.28700	-0.35014
-0.29200	-0.33288
-0.29700	-0.30245
-0.30200	-0.28926

Column 1	Column 2
-0.30700	-0.32795
-0.31200	-0.37771
-0.31700	-0.40370
-0.32200	-0.40530
-0.32700	-0.40304
-0.33200	-0.42122
-0.33700	-0.45254
-0.34200	-0.46729
-0.34700	-0.43938

8.3.21 CV-21

Column 1	Column 2
-0.34800	-0.41123
-0.34300	-0.30041
-0.33800	-0.24819
-0.33300	-0.26631
-0.32800	-0.30377
-0.32300	-0.31748
-0.31800	-0.31391
-0.31300	-0.30754
-0.30800	-0.32544
-0.30300	-0.35803
-0.29800	-0.37171
-0.29300	-0.35489
-0.28800	-0.33692
-0.28300	-0.33729
-0.27800	-0.34201
-0.27300	-0.33997
-0.26800	-0.33733
-0.26300	-0.33629
-0.25800	-0.33565
-0.25300	-0.33973
-0.24800	-0.34510
-0.24300	-0.34646
-0.23800	-0.34688

Column 1	Column 2
-0.23300	-0.35072
-0.22800	-0.35344
-0.22300	-0.34985
-0.21800	-0.34312
-0.21300	-0.34081
-0.20800	-0.34227
-0.20300	-0.34263
-0.19800	-0.33854
-0.19300	-0.32373
-0.18800	-0.30304
-0.18300	-0.28735
-0.17800	-0.27558
-0.17300	-0.25989
-0.16800	-0.24223
-0.16300	-0.22312
-0.15800	-0.19602
-0.15300	-0.16327
-0.14800	-0.13408
-0.14300	-0.11888
-0.13800	-0.11238
-0.13300	-0.099050
-0.12800	-0.078700
-0.12300	-0.058510
-0.11800	-0.036170
-0.11300	-0.0069800
-0.10800	0.023020
-0.10300	0.038770
-0.098000	0.036970
-0.093000	0.035250
-0.088000	0.036230
-0.083000	0.029240
-0.078000	0.022150
-0.073000	0.035020
-0.068000	0.083050
-0.063000	0.16589

Column 1	Column 2
-0.058000	0.27054
-0.053000	0.37502
-0.048000	0.46542
-0.043000	0.53886
-0.038000	0.59138
-0.033000	0.61886
-0.028000	0.61484
-0.023000	0.59004
-0.018000	0.57297
-0.013000	0.56888
-0.0080000	0.55558
-0.0030000	0.52347
0.0020000	0.47769
0.0070000	0.42593
0.012000	0.38724
0.017000	0.37142
0.022000	0.37021
0.027000	0.38135
0.032000	0.40508
0.037000	0.42629
0.042000	0.43240
0.047000	0.43049
0.052000	0.42060
0.057000	0.39631
0.062000	0.37241
0.067000	0.36453
0.072000	0.36372
0.077000	0.35828
0.082000	0.35101
0.087000	0.34069
0.092000	0.32775
0.097000	0.31866
0.10200	0.31238
0.10700	0.30526
0.11200	0.29541

Column 1	Column 2
0.11700	0.28718
0.12200	0.28202
0.12700	0.28070
0.13200	0.27939
0.13700	0.27525
0.14200	0.27459
0.14700	0.27116
0.15200	0.27388
0.15700	0.29683
0.16200	0.31900
0.16700	0.32659
0.17200	0.32504
0.17700	0.31922
0.18200	0.32290
0.18700	0.32380
0.19200	0.32243
0.19700	0.32272
0.19800	0.30336
0.19300	0.28586
0.18800	0.30141
0.18300	0.28866
0.17800	0.28133
0.17300	0.27359
0.16800	0.26432
0.16300	0.25857
0.15800	0.25766
0.15300	0.26477
0.14800	0.27528
0.14300	0.29103
0.13800	0.30344
0.13300	0.30819
0.12800	0.30673
0.12300	0.30518
0.11800	0.30603
0.11300	0.30630

Column 1	Column 2
0.10800	0.30570
0.10300	0.30570
0.098000	0.30721
0.093000	0.30803
0.088000	0.30889
0.083000	0.30854
0.078000	0.30769
0.073000	0.31080
0.068000	0.31690
0.063000	0.32308
0.058000	0.33281
0.053000	0.34156
0.048000	0.34210
0.043000	0.33619
0.038000	0.32537
0.033000	0.31385
0.028000	0.30576
0.023000	0.30748
0.018000	0.31269
0.013000	0.30925
0.0080000	0.30263
0.0030000	0.29404
-0.0020000	0.28243
-0.0070000	0.27144
-0.012000	0.25956
-0.017000	0.24721
-0.022000	0.23597
-0.027000	0.22606
-0.032000	0.21657
-0.037000	0.20344
-0.042000	0.18631
-0.047000	0.16834
-0.052000	0.15053
-0.057000	0.13250
-0.062000	0.11390

Column 1	Column 2
-0.067000	0.095030
-0.072000	0.075780
-0.077000	0.054610
-0.082000	0.030990
-0.087000	0.0055200
-0.092000	-0.023490
-0.097000	-0.056350
-0.10200	-0.090100
-0.10700	-0.12402
-0.11200	-0.15829
-0.11700	-0.19045
-0.12200	-0.22081
-0.12700	-0.25054
-0.13200	-0.28231
-0.13700	-0.31330
-0.14200	-0.34383
-0.14700	-0.40659
-0.15200	-0.49354
-0.15700	-0.55075
-0.16200	-0.57402
-0.16700	-0.57485
-0.17200	-0.56089
-0.17700	-0.55259
-0.18200	-0.55073
-0.18700	-0.53699
-0.19200	-0.51253
-0.19700	-0.49920
-0.20200	-0.49299
-0.20700	-0.48246
-0.21200	-0.47929
-0.21700	-0.48395
-0.22200	-0.48614
-0.22700	-0.48549
-0.23200	-0.48173
-0.23700	-0.47684

Column 1	Column 2
-0.24200	-0.47305
-0.24700	-0.47078
-0.25200	-0.47080
-0.25700	-0.47146
-0.26200	-0.47213
-0.26700	-0.47166
-0.27200	-0.47051
-0.27700	-0.46822
-0.28200	-0.46553
-0.28700	-0.46247
-0.29200	-0.45952
-0.29700	-0.45643
-0.30200	-0.45410
-0.30700	-0.45246
-0.31200	-0.45011
-0.31700	-0.45111
-0.32200	-0.45022
-0.32700	-0.45003
-0.33200	-0.44837
-0.33700	-0.44943
-0.34200	-0.45123
-0.34700	-0.45097

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Column 1	Column 2
-0.34800	-0.49796
-0.34300	-0.48804
-0.33800	-0.47528
-0.33300	-0.47388
-0.32800	-0.47038
-0.32300	-0.46696
-0.31800	-0.46427
-0.31300	-0.46094
-0.30800	-0.45906
-0.30300	-0.45701

Column 1	Column 2
-0.29800	-0.45586
-0.29300	-0.45309
-0.28800	-0.44991
-0.28300	-0.44694
-0.27800	-0.44439
-0.27300	-0.44135
-0.26800	-0.43803
-0.26300	-0.43537
-0.25800	-0.43235
-0.25300	-0.42825
-0.24800	-0.42362
-0.24300	-0.41999
-0.23800	-0.41664
-0.23300	-0.41279
-0.22800	-0.40753
-0.22300	-0.40239
-0.21800	-0.39753
-0.21300	-0.39070
-0.20800	-0.38230
-0.20300	-0.37386
-0.19800	-0.36527
-0.19300	-0.35496
-0.18800	-0.34355
-0.18300	-0.33121
-0.17800	-0.31714
-0.17300	-0.30132
-0.16800	-0.28278
-0.16300	-0.26152
-0.15800	-0.23899
-0.15300	-0.21522
-0.14800	-0.18960
-0.14300	-0.16166
-0.13800	-0.13195
-0.13300	-0.10030
-0.12800	-0.065780

Column 1	Column 2
-0.12300	-0.030590
-0.11800	0.0047700
-0.11300	0.041650
-0.10800	0.079220
-0.10300	0.11624
-0.098000	0.15258
-0.093000	0.18833
-0.088000	0.22230
-0.083000	0.25366
-0.078000	0.28265
-0.073000	0.30910
-0.068000	0.33285
-0.063000	0.35412
-0.058000	0.37226
-0.053000	0.38745
-0.048000	0.40063
-0.043000	0.41128
-0.038000	0.41944
-0.033000	0.42629
-0.028000	0.43160
-0.023000	0.43505
-0.018000	0.43821
-0.013000	0.44090
-0.0080000	0.44215
-0.0030000	0.44286
0.0020000	0.44299
0.0070000	0.44203
0.012000	0.44080
0.017000	0.43924
0.022000	0.43742
0.027000	0.43598
0.032000	0.43461
0.037000	0.43343
0.042000	0.43211
0.047000	0.43120

Column 1	Column 2
0.052000	0.43061
0.057000	0.42963
0.062000	0.42856
0.067000	0.42792
0.072000	0.42732
0.077000	0.42679
0.082000	0.42641
0.087000	0.42467
0.092000	0.42364
0.097000	0.41643
0.10200	0.40786
0.10700	0.41175
0.11200	0.41429
0.11700	0.41154
0.12200	0.41155
0.12700	0.41184
0.13200	0.41129
0.13700	0.41039
0.14200	0.40898
0.14700	0.40793
0.15200	0.40738
0.15700	0.40643
0.16200	0.40590
0.16700	0.40507
0.17200	0.40560
0.17700	0.40561
0.18200	0.40664
0.18700	0.40702
0.19200	0.40761
0.19700	0.40774
0.19800	0.38992
0.19300	0.38835
0.18800	0.38652
0.18300	0.38378
0.17800	0.38166

Column 1	Column 2
0.17300	0.38005
0.16800	0.37758
0.16300	0.37600
0.15800	0.37489
0.15300	0.37439
0.14800	0.37296
0.14300	0.37172
0.13800	0.37033
0.13300	0.36874
0.12800	0.36723
0.12300	0.36557
0.11800	0.36404
0.11300	0.36305
0.10800	0.36251
0.10300	0.36114
0.098000	0.35996
0.093000	0.35911
0.088000	0.35797
0.083000	0.35692
0.078000	0.35594
0.073000	0.35537
0.068000	0.35480
0.063000	0.35389
0.058000	0.35300
0.053000	0.35164
0.048000	0.34982
0.043000	0.34811
0.038000	0.34648
0.033000	0.34467
0.028000	0.34321
0.023000	0.34260
0.018000	0.34164
0.013000	0.33902
0.0080000	0.33505
0.0030000	0.32978

Column 1	Column 2
-0.0020000	0.32180
-0.0070000	0.31371
-0.012000	0.30599
-0.017000	0.29506
-0.022000	0.28398
-0.027000	0.27383
-0.032000	0.26187
-0.037000	0.24796
-0.042000	0.23177
-0.047000	0.21314
-0.052000	0.19144
-0.057000	0.16557
-0.062000	0.13552
-0.067000	0.10320
-0.072000	0.069370
-0.077000	0.033390
-0.082000	-0.0042000
-0.087000	-0.043370
-0.092000	-0.084130
-0.097000	-0.12591
-0.10200	-0.16789
-0.10700	-0.20950
-0.11200	-0.25079
-0.11700	-0.29087
-0.12200	-0.32907
-0.12700	-0.36534
-0.13200	-0.39911
-0.13700	-0.43049
-0.14200	-0.45905
-0.14700	-0.48413
-0.15200	-0.50621
-0.15700	-0.52575
-0.16200	-0.54250
-0.16700	-0.55576
-0.17200	-0.56686

Column 1	Column 2
-0.17700	-0.57610
-0.18200	-0.58290
-0.18700	-0.58814
-0.19200	-0.59152
-0.19700	-0.59363
-0.20200	-0.59516
-0.20700	-0.59557
-0.21200	-0.59522
-0.21700	-0.59418
-0.22200	-0.59230
-0.22700	-0.59053
-0.23200	-0.58830
-0.23700	-0.58578
-0.24200	-0.58320
-0.24700	-0.58001
-0.25200	-0.57725
-0.25700	-0.57448
-0.26200	-0.57123
-0.26700	-0.56820
-0.27200	-0.56580
-0.27700	-0.56337
-0.28200	-0.56074
-0.28700	-0.55816
-0.29200	-0.55569
-0.29700	-0.55312
-0.30200	-0.55123
-0.30700	-0.54935
-0.31200	-0.54611
-0.31700	-0.54411
-0.32200	-0.54156
-0.32700	-0.53949
-0.33200	-0.53744
-0.33700	-0.53558
-0.34200	-0.53434
-0.34700	-0.52927

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Column 1	Column 2
-0.34800	-0.61272
-0.34300	-0.59971
-0.33800	-0.58210
-0.33300	-0.58033
-0.32800	-0.57558
-0.32300	-0.57288
-0.31800	-0.57144
-0.31300	-0.56813
-0.30800	-0.56588
-0.30300	-0.56326
-0.29800	-0.56164
-0.29300	-0.55817
-0.28800	-0.55527
-0.28300	-0.55198
-0.27800	-0.54820
-0.27300	-0.54423
-0.26800	-0.53986
-0.26300	-0.53571
-0.25800	-0.53090
-0.25300	-0.52608
-0.24800	-0.52103
-0.24300	-0.51548
-0.23800	-0.50941
-0.23300	-0.50293
-0.22800	-0.49594
-0.22300	-0.48911
-0.21800	-0.48133
-0.21300	-0.47209
-0.20800	-0.46248
-0.20300	-0.45203
-0.19800	-0.43947
-0.19300	-0.42528
-0.18800	-0.41091
-0.18300	-0.39479

Column 1	Column 2
-0.17800	-0.37643
-0.17300	-0.35630
-0.16800	-0.33392
-0.16300	-0.30921
-0.15800	-0.28245
-0.15300	-0.25307
-0.14800	-0.22054
-0.14300	-0.18582
-0.13800	-0.14861
-0.13300	-0.10859
-0.12800	-0.066650
-0.12300	-0.023160
-0.11800	0.022410
-0.11300	0.069280
-0.10800	0.11630
-0.10300	0.16345
-0.098000	0.21001
-0.093000	0.25521
-0.088000	0.29899
-0.083000	0.34086
-0.078000	0.37969
-0.073000	0.41558
-0.068000	0.44863
-0.063000	0.47767
-0.058000	0.50277
-0.053000	0.52498
-0.048000	0.54354
-0.043000	0.55788
-0.038000	0.56943
-0.033000	0.57860
-0.028000	0.58575
-0.023000	0.59140
-0.018000	0.59532
-0.013000	0.59751
-0.0080000	0.59888

Column 1	Column 2
-0.0030000	0.60061
0.0020000	0.60127
0.0070000	0.60026
0.012000	0.59940
0.017000	0.59830
0.022000	0.59632
0.027000	0.59467
0.032000	0.59292
0.037000	0.59028
0.042000	0.58743
0.047000	0.58526
0.052000	0.58320
0.057000	0.58024
0.062000	0.57749
0.067000	0.57522
0.072000	0.57303
0.077000	0.57043
0.082000	0.56763
0.087000	0.56493
0.092000	0.56252
0.097000	0.56074
0.10200	0.55851
0.10700	0.55584
0.11200	0.55370
0.11700	0.55074
0.12200	0.54753
0.12700	0.54663
0.13200	0.54516
0.13700	0.54347
0.14200	0.54198
0.14700	0.54018
0.15200	0.53853
0.15700	0.53660
0.16200	0.53527
0.16700	0.53303

Column 1	Column 2
0.17200	0.53224
0.17700	0.53014
0.18200	0.52876
0.18700	0.52622
0.19200	0.52473
0.19700	0.52399
0.19800	0.50419
0.19300	0.50750
0.18800	0.50247
0.18300	0.49941
0.17800	0.49600
0.17300	0.49434
0.16800	0.49197
0.16300	0.49040
0.15800	0.48845
0.15300	0.48640
0.14800	0.48454
0.14300	0.48243
0.13800	0.47990
0.13300	0.47755
0.12800	0.47568
0.12300	0.47381
0.11800	0.47172
0.11300	0.47002
0.10800	0.46839
0.10300	0.46600
0.098000	0.46442
0.093000	0.46307
0.088000	0.46076
0.083000	0.45857
0.078000	0.45687
0.073000	0.45529
0.068000	0.45366
0.063000	0.45193
0.058000	0.44991

Column 1	Column 2
0.053000	0.44696
0.048000	0.44358
0.043000	0.44066
0.038000	0.43751
0.033000	0.43448
0.028000	0.43143
0.023000	0.42698
0.018000	0.42186
0.013000	0.41630
0.0080000	0.40914
0.0030000	0.40121
-0.0020000	0.39258
-0.0070000	0.38234
-0.012000	0.37093
-0.017000	0.35784
-0.022000	0.34228
-0.027000	0.32430
-0.032000	0.30573
-0.037000	0.28593
-0.042000	0.26125
-0.047000	0.23258
-0.052000	0.20013
-0.057000	0.16215
-0.062000	0.12052
-0.067000	0.077400
-0.072000	0.032780
-0.077000	-0.014210
-0.082000	-0.064280
-0.087000	-0.11727
-0.092000	-0.17116
-0.097000	-0.22505
-0.10200	-0.27956
-0.10700	-0.33351
-0.11200	-0.38532
-0.11700	-0.43469

Column 1	Column 2
-0.12200	-0.48163
-0.12700	-0.52529
-0.13200	-0.56498
-0.13700	-0.60122
-0.14200	-0.63380
-0.14700	-0.66245
-0.15200	-0.68701
-0.15700	-0.70730
-0.16200	-0.72448
-0.16700	-0.73864
-0.17200	-0.75013
-0.17700	-0.75909
-0.18200	-0.76518
-0.18700	-0.76962
-0.19200	-0.77182
-0.19700	-0.77206
-0.20200	-0.77201
-0.20700	-0.77090
-0.21200	-0.76884
-0.21700	-0.76687
-0.22200	-0.76441
-0.22700	-0.76090
-0.23200	-0.75663
-0.23700	-0.75293
-0.24200	-0.74903
-0.24700	-0.74421
-0.25200	-0.74001
-0.25700	-0.73565
-0.26200	-0.73073
-0.26700	-0.72625
-0.27200	-0.72234
-0.27700	-0.71764
-0.28200	-0.71195
-0.28700	-0.70694
-0.29200	-0.70424

Column 1	Column 2
-0.29700	-0.70243
-0.30200	-0.69827
-0.30700	-0.69291
-0.31200	-0.68834
-0.31700	-0.68499
-0.32200	-0.68074
-0.32700	-0.67699
-0.33200	-0.67356
-0.33700	-0.67016
-0.34200	-0.66736
-0.34700	-0.66093

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Column 1	Column 2
-0.34800	-0.65716
-0.34300	-0.63965
-0.33800	-0.63312
-0.33300	-0.62728
-0.32800	-0.62180
-0.32300	-0.61705
-0.31800	-0.61241
-0.31300	-0.60748
-0.30800	-0.60210
-0.30300	-0.59735
-0.29800	-0.59214
-0.29300	-0.58643
-0.28800	-0.58132
-0.28300	-0.57690
-0.27800	-0.57255
-0.27300	-0.56814
-0.26800	-0.56359
-0.26300	-0.55843
-0.25800	-0.55332
-0.25300	-0.54805
-0.24800	-0.54225

Column 1	Column 2
-0.24300	-0.53667
-0.23800	-0.53182
-0.23300	-0.52633
-0.22800	-0.51972
-0.22300	-0.51288
-0.21800	-0.50379
-0.21300	-0.49241
-0.20800	-0.48115
-0.20300	-0.47116
-0.19800	-0.46203
-0.19300	-0.45033
-0.18800	-0.43523
-0.18300	-0.41808
-0.17800	-0.39775
-0.17300	-0.37590
-0.16800	-0.35351
-0.16300	-0.32764
-0.15800	-0.29774
-0.15300	-0.26444
-0.14800	-0.23078
-0.14300	-0.19950
-0.13800	-0.16339
-0.13300	-0.11810
-0.12800	-0.070220
-0.12300	-0.021440
-0.11800	0.029280
-0.11300	0.079620
-0.10800	0.12941
-0.10300	0.17736
-0.098000	0.22853
-0.093000	0.28510
-0.088000	0.33518
-0.083000	0.37553
-0.078000	0.41290
-0.073000	0.45353

Column 1	Column 2
-0.068000	0.49403
-0.063000	0.52846
-0.058000	0.56080
-0.053000	0.58719
-0.048000	0.60408
-0.043000	0.61848
-0.038000	0.63442
-0.033000	0.64938
-0.028000	0.66005
-0.023000	0.66799
-0.018000	0.67324
-0.013000	0.67517
-0.0080000	0.67656
-0.0030000	0.67853
0.0020000	0.67882
0.0070000	0.67829
0.012000	0.67985
0.017000	0.68109
0.022000	0.68104
0.027000	0.68055
0.032000	0.67852
0.037000	0.67563
0.042000	0.67297
0.047000	0.66974
0.052000	0.66526
0.057000	0.66047
0.062000	0.65657
0.067000	0.65365
0.072000	0.65106
0.077000	0.64907
0.082000	0.64613
0.087000	0.64245
0.092000	0.64104
0.097000	0.63980
0.10200	0.63582

Column 1	Column 2
0.10700	0.62989
0.11200	0.62352
0.11700	0.61884
0.12200	0.61717
0.12700	0.61450
0.13200	0.60907
0.13700	0.60505
0.14200	0.60419
0.14700	0.60503
0.15200	0.60525
0.15700	0.60412
0.16200	0.60192
0.16700	0.59971
0.17200	0.59801
0.17700	0.59699
0.18200	0.59570
0.18700	0.59315
0.19200	0.58916
0.19700	0.58261
0.19800	0.57266
0.19300	0.57143
0.18800	0.55574
0.18300	0.55601
0.17800	0.56085
0.17300	0.56295
0.16800	0.55338
0.16300	0.54132
0.15800	0.53533
0.15300	0.53175
0.14800	0.52940
0.14300	0.52777
0.13800	0.52711
0.13300	0.52643
0.12800	0.52555
0.12300	0.52295

Column 1	Column 2
0.11800	0.51808
0.11300	0.51212
0.10800	0.50603
0.10300	0.49982
0.098000	0.49365
0.093000	0.48944
0.088000	0.48637
0.083000	0.48189
0.078000	0.47707
0.073000	0.47326
0.068000	0.46921
0.063000	0.46540
0.058000	0.46323
0.053000	0.46181
0.048000	0.45839
0.043000	0.45511
0.038000	0.45388
0.033000	0.45134
0.028000	0.44856
0.023000	0.44765
0.018000	0.44660
0.013000	0.44266
0.0080000	0.43488
0.0030000	0.42356
-0.0020000	0.40989
-0.0070000	0.39558
-0.012000	0.38101
-0.017000	0.36534
-0.022000	0.34799
-0.027000	0.32999
-0.032000	0.31138
-0.037000	0.28892
-0.042000	0.26082
-0.047000	0.22957
-0.052000	0.19480

Column 1	Column 2
-0.057000	0.15410
-0.062000	0.10782
-0.067000	0.057880
-0.072000	0.0044900
-0.077000	-0.051440
-0.082000	-0.10776
-0.087000	-0.16366
-0.092000	-0.21891
-0.097000	-0.27537
-0.10200	-0.32352
-0.10700	-0.36698
-0.11200	-0.42810
-0.11700	-0.49338
-0.12200	-0.54522
-0.12700	-0.59182
-0.13200	-0.63693
-0.13700	-0.67929
-0.14200	-0.71524
-0.14700	-0.74453
-0.15200	-0.77110
-0.15700	-0.79474
-0.16200	-0.81377
-0.16700	-0.82841
-0.17200	-0.84017
-0.17700	-0.84927
-0.18200	-0.85497
-0.18700	-0.85768
-0.19200	-0.85883
-0.19700	-0.85917
-0.20200	-0.85831
-0.20700	-0.85564
-0.21200	-0.85188
-0.21700	-0.84835
-0.22200	-0.84424
-0.22700	-0.83940

Column 1	Column 2
-0.23200	-0.83489
-0.23700	-0.83073
-0.24200	-0.82659
-0.24700	-0.82185
-0.25200	-0.81656
-0.25700	-0.81050
-0.26200	-0.80463
-0.26700	-0.79963
-0.27200	-0.79411
-0.27700	-0.78832
-0.28200	-0.78228
-0.28700	-0.77708
-0.29200	-0.77309
-0.29700	-0.76996
-0.30200	-0.76703
-0.30700	-0.76308
-0.31200	-0.75844
-0.31700	-0.75405
-0.32200	-0.75054
-0.32700	-0.74679
-0.33200	-0.74332
-0.33700	-0.73822
-0.34200	-0.73396
-0.34700	-0.72837

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Global Evaluation 1

Column 1	Column 2
-0.34800	-0.78331
-0.34300	-0.76491
-0.33800	-0.76125
-0.33300	-0.75329
-0.32800	-0.74672
-0.32300	-0.73982
-0.31800	-0.73272

Column 1	Column 2
-0.31300	-0.72587
-0.30800	-0.71874
-0.30300	-0.71284
-0.29800	-0.70592
-0.29300	-0.69919
-0.28800	-0.69253
-0.28300	-0.68592
-0.27800	-0.68039
-0.27300	-0.67442
-0.26800	-0.66769
-0.26300	-0.66111
-0.25800	-0.65487
-0.25300	-0.64832
-0.24800	-0.64093
-0.24300	-0.63326
-0.23800	-0.62696
-0.23300	-0.61969
-0.22800	-0.61130
-0.22300	-0.60325
-0.21800	-0.59634
-0.21300	-0.59869
-0.20800	-0.59356
-0.20300	-0.56506
-0.19800	-0.54045
-0.19300	-0.52654
-0.18800	-0.50849
-0.18300	-0.48692
-0.17800	-0.46261
-0.17300	-0.43679
-0.16800	-0.40925
-0.16300	-0.37927
-0.15800	-0.34709
-0.15300	-0.31114
-0.14800	-0.27128
-0.14300	-0.22857

Column 1	Column 2
-0.13800	-0.18327
-0.13300	-0.13465
-0.12800	-0.083100
-0.12300	-0.028570
-0.11800	0.028470
-0.11300	0.087270
-0.10800	0.14804
-0.10300	0.21029
-0.098000	0.27265
-0.093000	0.33365
-0.088000	0.39325
-0.083000	0.45132
-0.078000	0.50613
-0.073000	0.55662
-0.068000	0.60316
-0.063000	0.64508
-0.058000	0.68228
-0.053000	0.71487
-0.048000	0.74203
-0.043000	0.76459
-0.038000	0.78358
-0.033000	0.79908
-0.028000	0.81059
-0.023000	0.81867
-0.018000	0.82444
-0.013000	0.82827
-0.0080000	0.83046
-0.0030000	0.83125
0.0020000	0.83098
0.0070000	0.82988
0.012000	0.82816
0.017000	0.82577
0.022000	0.82320
0.027000	0.82087
0.032000	0.81814

Column 1	Column 2
0.037000	0.81458
0.042000	0.81048
0.047000	0.80609
0.052000	0.80146
0.057000	0.79729
0.062000	0.79370
0.067000	0.78944
0.072000	0.78421
0.077000	0.77935
0.082000	0.77488
0.087000	0.77039
0.092000	0.76629
0.097000	0.76248
0.10200	0.75846
0.10700	0.75459
0.11200	0.75094
0.11700	0.74665
0.12200	0.74271
0.12700	0.73873
0.13200	0.73373
0.13700	0.72868
0.14200	0.72399
0.14700	0.71916
0.15200	0.71475
0.15700	0.71006
0.16200	0.70482
0.16700	0.70039
0.17200	0.69602
0.17700	0.69385
0.18200	0.69189
0.18700	0.69060
0.19200	0.68923
0.19700	0.68381
0.19800	0.67395
0.19300	0.67322

Column 1	Column 2
0.18800	0.65585
0.18300	0.65390
0.17800	0.64860
0.17300	0.64493
0.16800	0.64126
0.16300	0.63813
0.15800	0.63702
0.15300	0.63503
0.14800	0.63302
0.14300	0.63025
0.13800	0.62749
0.13300	0.62476
0.12800	0.62317
0.12300	0.62057
0.11800	0.61695
0.11300	0.61416
0.10800	0.61116
0.10300	0.60783
0.098000	0.60467
0.093000	0.60184
0.088000	0.59857
0.083000	0.59559
0.078000	0.59281
0.073000	0.58948
0.068000	0.58596
0.063000	0.58270
0.058000	0.57903
0.053000	0.57508
0.048000	0.57135
0.043000	0.56652
0.038000	0.56128
0.033000	0.55620
0.028000	0.55002
0.023000	0.54248
0.018000	0.53474

Column 1	Column 2
0.013000	0.52686
0.0080000	0.51737
0.0030000	0.50622
-0.0020000	0.49363
-0.0070000	0.47883
-0.012000	0.46168
-0.017000	0.44150
-0.022000	0.41716
-0.027000	0.38969
-0.032000	0.35976
-0.037000	0.32605
-0.042000	0.28760
-0.047000	0.24418
-0.052000	0.19581
-0.057000	0.14313
-0.062000	0.086280
-0.067000	0.024580
-0.072000	-0.041130
-0.077000	-0.10952
-0.082000	-0.18041
-0.087000	-0.25330
-0.092000	-0.32693
-0.097000	-0.40002
-0.10200	-0.47232
-0.10700	-0.54301
-0.11200	-0.61023
-0.11700	-0.67394
-0.12200	-0.73403
-0.12700	-0.78868
-0.13200	-0.83816
-0.13700	-0.88333
-0.14200	-0.92299
-0.14700	-0.95673
-0.15200	-0.98514
-0.15700	-1.0089

Column 1	Column 2
-0.16200	-1.0281
-0.16700	-1.0427
-0.17200	-1.0534
-0.17700	-1.0608
-0.18200	-1.0661
-0.18700	-1.0694
-0.19200	-1.0695
-0.19700	-1.0677
-0.20200	-1.0651
-0.20700	-1.0609
-0.21200	-1.0552
-0.21700	-1.0493
-0.22200	-1.0432
-0.22700	-1.0363
-0.23200	-1.0299
-0.23700	-1.0236
-0.24200	-1.0161
-0.24700	-1.0080
-0.25200	-1.0006
-0.25700	-0.99370
-0.26200	-0.98616
-0.26700	-0.97863
-0.27200	-0.97138
-0.27700	-0.96436
-0.28200	-0.95739
-0.28700	-0.95049
-0.29200	-0.94315
-0.29700	-0.93613
-0.30200	-0.92938
-0.30700	-0.92238
-0.31200	-0.91588
-0.31700	-0.90933
-0.32200	-0.90290
-0.32700	-0.89612
-0.33200	-0.89053

Column 1	Column 2
-0.33700	-0.88373
-0.34200	-0.87771
-0.34700	-0.87089

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Column 1	Column 2
-0.34800	-1.3850
-0.34300	-1.3289
-0.33800	-1.3192
-0.33300	-1.2916
-0.32800	-1.2695
-0.32300	-1.2474
-0.31800	-1.2235
-0.31300	-1.2018
-0.30800	-1.1809
-0.30300	-1.1634
-0.29800	-1.1453
-0.29300	-1.1265
-0.28800	-1.1074
-0.28300	-1.0900
-0.27800	-1.0717
-0.27300	-1.0527
-0.26800	-1.0336
-0.26300	-1.0147
-0.25800	-0.99674
-0.25300	-0.97832
-0.24800	-0.95986
-0.24300	-0.94116
-0.23800	-0.92220
-0.23300	-0.90184
-0.22800	-0.88173
-0.22300	-0.86265
-0.21800	-0.84123
-0.21300	-0.81805
-0.20800	-0.79525

Column 1	Column 2
-0.20300	-0.77034
-0.19800	-0.74219
-0.19300	-0.71187
-0.18800	-0.67848
-0.18300	-0.64193
-0.17800	-0.60155
-0.17300	-0.55725
-0.16800	-0.50908
-0.16300	-0.45659
-0.15800	-0.39897
-0.15300	-0.33487
-0.14800	-0.26486
-0.14300	-0.18946
-0.13800	-0.10775
-0.13300	-0.019280
-0.12800	0.075560
-0.12300	0.17695
-0.11800	0.28449
-0.11300	0.39695
-0.10800	0.51358
-0.10300	0.63509
-0.098000	0.75989
-0.093000	0.88644
-0.088000	1.0150
-0.083000	1.1426
-0.078000	1.2680
-0.073000	1.3907
-0.068000	1.5068
-0.063000	1.6154
-0.058000	1.7168
-0.053000	1.8091
-0.048000	1.8901
-0.043000	1.9594
-0.038000	2.0175
-0.033000	2.0647

Column 1	Column 2
-0.028000	2.1013
-0.023000	2.1287
-0.018000	2.1476
-0.013000	2.1585
-0.0080000	2.1627
-0.0030000	2.1615
0.0020000	2.1554
0.0070000	2.1451
0.012000	2.1323
0.017000	2.1171
0.022000	2.0998
0.027000	2.0817
0.032000	2.0623
0.037000	2.0415
0.042000	2.0202
0.047000	1.9982
0.052000	1.9757
0.057000	1.9533
0.062000	1.9307
0.067000	1.9081
0.072000	1.8855
0.077000	1.8633
0.082000	1.8412
0.087000	1.8196
0.092000	1.7980
0.097000	1.7759
0.10200	1.7549
0.10700	1.7349
0.11200	1.7148
0.11700	1.6941
0.12200	1.6743
0.12700	1.6542
0.13200	1.6344
0.13700	1.6146
0.14200	1.5950

Column 1	Column 2
0.14700	1.5758
0.15200	1.5564
0.15700	1.5378
0.16200	1.5183
0.16700	1.5006
0.17200	1.4817
0.17700	1.4641
0.18200	1.4456
0.18700	1.4290
0.19200	1.4119
0.19700	1.3922
0.19800	1.3786
0.19300	1.3793
0.18800	1.3194
0.18300	1.3110
0.17800	1.2910
0.17300	1.2735
0.16800	1.2581
0.16300	1.2405
0.15800	1.2254
0.15300	1.2082
0.14800	1.1937
0.14300	1.1771
0.13800	1.1612
0.13300	1.1449
0.12800	1.1298
0.12300	1.1139
0.11800	1.0985
0.11300	1.0841
0.10800	1.0686
0.10300	1.0538
0.098000	1.0392
0.093000	1.0246
0.088000	1.0091
0.083000	0.99409

Column 1	Column 2
0.078000	0.97918
0.073000	0.96344
0.068000	0.94738
0.063000	0.93124
0.058000	0.91468
0.053000	0.89761
0.048000	0.87973
0.043000	0.86043
0.038000	0.84024
0.033000	0.81834
0.028000	0.79474
0.023000	0.76875
0.018000	0.74051
0.013000	0.70907
0.0080000	0.67355
0.0030000	0.63356
-0.0020000	0.58840
-0.0070000	0.53791
-0.012000	0.48000
-0.017000	0.41462
-0.022000	0.34091
-0.027000	0.25714
-0.032000	0.16288
-0.037000	0.058320
-0.042000	-0.056130
-0.047000	-0.18121
-0.052000	-0.31734
-0.057000	-0.46251
-0.062000	-0.61496
-0.067000	-0.77447
-0.072000	-0.93974
-0.077000	-1.1079
-0.082000	-1.2761
-0.087000	-1.4432
-0.092000	-1.6066

Column 1	Column 2
-0.097000	-1.7641
-0.10200	-1.9139
-0.10700	-2.0533
-0.11200	-2.1817
-0.11700	-2.2981
-0.12200	-2.4014
-0.12700	-2.4905
-0.13200	-2.5667
-0.13700	-2.6301
-0.14200	-2.6794
-0.14700	-2.7165
-0.15200	-2.7421
-0.15700	-2.7564
-0.16200	-2.7604
-0.16700	-2.7560
-0.17200	-2.7447
-0.17700	-2.7263
-0.18200	-2.7019
-0.18700	-2.6739
-0.19200	-2.6425
-0.19700	-2.6080
-0.20200	-2.5712
-0.20700	-2.5317
-0.21200	-2.4912
-0.21700	-2.4505
-0.22200	-2.4098
-0.22700	-2.3683
-0.23200	-2.3269
-0.23700	-2.2859
-0.24200	-2.2448
-0.24700	-2.2039
-0.25200	-2.1640
-0.25700	-2.1248
-0.26200	-2.0855
-0.26700	-2.0470

Column 1	Column 2
-0.27200	-2.0083
-0.27700	-1.9717
-0.28200	-1.9354
-0.28700	-1.8993
-0.29200	-1.8639
-0.29700	-1.8293
-0.30200	-1.7952
-0.30700	-1.7613
-0.31200	-1.7296
-0.31700	-1.6967
-0.32200	-1.6661
-0.32700	-1.6339
-0.33200	-1.6055
-0.33700	-1.5751
-0.34200	-1.5466
-0.34700	-1.5189

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Column 1	Column 2
-0.34800	-1.5214
-0.34300	-1.4579
-0.33800	-1.4386
-0.33300	-1.3990
-0.32800	-1.3646
-0.32300	-1.3323
-0.31800	-1.2987
-0.31300	-1.2681
-0.30800	-1.2360
-0.30300	-1.2066
-0.29800	-1.1765
-0.29300	-1.1483
-0.28800	-1.1201
-0.28300	-1.0921
-0.27800	-1.0646
-0.27300	-1.0379

Column 1	Column 2
-0.26800	-1.0121
-0.26300	-0.98582
-0.25800	-0.95971
-0.25300	-0.93345
-0.24800	-0.90831
-0.24300	-0.88295
-0.23800	-0.85716
-0.23300	-0.83055
-0.22800	-0.80404
-0.22300	-0.77704
-0.21800	-0.74850
-0.21300	-0.71909
-0.20800	-0.68808
-0.20300	-0.65513
-0.19800	-0.62016
-0.19300	-0.58282
-0.18800	-0.54138
-0.18300	-0.49637
-0.17800	-0.44779
-0.17300	-0.39376
-0.16800	-0.33432
-0.16300	-0.26940
-0.15800	-0.19765
-0.15300	-0.11934
-0.14800	-0.034250
-0.14300	0.059260
-0.13800	0.16131
-0.13300	0.27200
-0.12800	0.39088
-0.12300	0.51823
-0.11800	0.65421
-0.11300	0.79816
-0.10800	0.95015
-0.10300	1.1096
-0.098000	1.2754

Column 1	Column 2
-0.093000	1.4470
-0.088000	1.6225
-0.083000	1.7987
-0.078000	1.9757
-0.073000	2.1518
-0.068000	2.3225
-0.063000	2.4851
-0.058000	2.6379
-0.053000	2.7782
-0.048000	2.9033
-0.043000	3.0127
-0.038000	3.1041
-0.033000	3.1770
-0.028000	3.2328
-0.023000	3.2722
-0.018000	3.2959
-0.013000	3.3063
-0.0080000	3.3048
-0.0030000	3.2926
0.0020000	3.2726
0.0070000	3.2453
0.012000	3.2117
0.017000	3.1738
0.022000	3.1329
0.027000	3.0889
0.032000	3.0426
0.037000	2.9946
0.042000	2.9450
0.047000	2.8958
0.052000	2.8461
0.057000	2.7961
0.062000	2.7462
0.067000	2.6964
0.072000	2.6474
0.077000	2.5988

Column 1	Column 2
0.082000	2.5494
0.087000	2.5014
0.092000	2.4541
0.097000	2.4069
0.10200	2.3610
0.10700	2.3154
0.11200	2.2708
0.11700	2.2269
0.12200	2.1844
0.12700	2.1416
0.13200	2.0994
0.13700	2.0585
0.14200	2.0183
0.14700	1.9788
0.15200	1.9395
0.15700	1.9018
0.16200	1.8638
0.16700	1.8281
0.17200	1.7911
0.17700	1.7570
0.18200	1.7213
0.18700	1.6882
0.19200	1.6560
0.19700	1.6180
0.19800	1.6028
0.19300	1.5757
0.18800	1.5016
0.18300	1.4776
0.17800	1.4433
0.17300	1.4129
0.16800	1.3836
0.16300	1.3525
0.15800	1.3245
0.15300	1.2948
0.14800	1.2680

Column 1	Column 2
0.14300	1.2394
0.13800	1.2125
0.13300	1.1861
0.12800	1.1603
0.12300	1.1342
0.11800	1.1090
0.11300	1.0849
0.10800	1.0600
0.10300	1.0356
0.098000	1.0113
0.093000	0.98729
0.088000	0.96349
0.083000	0.93985
0.078000	0.91531
0.073000	0.89148
0.068000	0.86759
0.063000	0.84231
0.058000	0.81630
0.053000	0.78975
0.048000	0.76206
0.043000	0.73206
0.038000	0.70085
0.033000	0.66723
0.028000	0.63009
0.023000	0.58943
0.018000	0.54482
0.013000	0.49441
0.0080000	0.43762
0.0030000	0.37411
-0.0020000	0.30151
-0.0070000	0.21901
-0.012000	0.12625
-0.017000	0.021390
-0.022000	-0.097400
-0.027000	-0.23011

Column 1	Column 2
-0.032000	-0.37807
-0.037000	-0.54189
-0.042000	-0.72107
-0.047000	-0.91521
-0.052000	-1.1230
-0.057000	-1.3431
-0.062000	-1.5729
-0.067000	-1.8092
-0.072000	-2.0495
-0.077000	-2.2899
-0.082000	-2.5269
-0.087000	-2.7576
-0.092000	-2.9775
-0.097000	-3.1846
-0.10200	-3.3762
-0.10700	-3.5485
-0.11200	-3.7018
-0.11700	-3.8348
-0.12200	-3.9453
-0.12700	-4.0335
-0.13200	-4.1012
-0.13700	-4.1482
-0.14200	-4.1739
-0.14700	-4.1817
-0.15200	-4.1721
-0.15700	-4.1467
-0.16200	-4.1083
-0.16700	-4.0577
-0.17200	-3.9970
-0.17700	-3.9285
-0.18200	-3.8529
-0.18700	-3.7718
-0.19200	-3.6865
-0.19700	-3.5988
-0.20200	-3.5096

Column 1	Column 2
-0.20700	-3.4189
-0.21200	-3.3281
-0.21700	-3.2378
-0.22200	-3.1495
-0.22700	-3.0612
-0.23200	-2.9730
-0.23700	-2.8872
-0.24200	-2.8037
-0.24700	-2.7223
-0.25200	-2.6428
-0.25700	-2.5647
-0.26200	-2.4887
-0.26700	-2.4154
-0.27200	-2.3432
-0.27700	-2.2745
-0.28200	-2.2076
-0.28700	-2.1419
-0.29200	-2.0785
-0.29700	-2.0176
-0.30200	-1.9580
-0.30700	-1.8996
-0.31200	-1.8443
-0.31700	-1.7893
-0.32200	-1.7373
-0.32700	-1.6855
-0.33200	-1.6381
-0.33700	-1.5891
-0.34200	-1.5441
-0.34700	-1.4992

8.3.28 CV-39

Column 1	Column 2
-0.34800	-1.4523
-0.34300	-1.3899
-0.33800	-1.3538

Column 1	Column 2
-0.33300	-1.3102
-0.32800	-1.2696
-0.32300	-1.2318
-0.31800	-1.1931
-0.31300	-1.1576
-0.30800	-1.1215
-0.30300	-1.0877
-0.29800	-1.0541
-0.29300	-1.0221
-0.28800	-0.99116
-0.28300	-0.96064
-0.27800	-0.93055
-0.27300	-0.90125
-0.26800	-0.87235
-0.26300	-0.84398
-0.25800	-0.81668
-0.25300	-0.78889
-0.24800	-0.76171
-0.24300	-0.73473
-0.23800	-0.70788
-0.23300	-0.68032
-0.22800	-0.65214
-0.22300	-0.62363
-0.21800	-0.59415
-0.21300	-0.56385
-0.20800	-0.53150
-0.20300	-0.49640
-0.19800	-0.45910
-0.19300	-0.41923
-0.18800	-0.37514
-0.18300	-0.32663
-0.17800	-0.27349
-0.17300	-0.21513
-0.16800	-0.15080
-0.16300	-0.079460

Column 1	Column 2
-0.15800	-6.0083E-4
-0.15300	0.086340
-0.14800	0.18153
-0.14300	0.28562
-0.13800	0.39991
-0.13300	0.52418
-0.12800	0.65792
-0.12300	0.80273
-0.11800	0.95852
-0.11300	1.1246
-0.10800	1.3011
-0.10300	1.4875
-0.098000	1.6824
-0.093000	1.8851
-0.088000	2.0951
-0.083000	2.3088
-0.078000	2.5242
-0.073000	2.7395
-0.068000	2.9504
-0.063000	3.1537
-0.058000	3.3464
-0.053000	3.5243
-0.048000	3.6836
-0.043000	3.8230
-0.038000	3.9397
-0.033000	4.0313
-0.028000	4.0999
-0.023000	4.1452
-0.018000	4.1682
-0.013000	4.1727
-0.0080000	4.1592
-0.0030000	4.1307
0.0020000	4.0911
0.0070000	4.0405
0.012000	3.9812

Column 1	Column 2
0.017000	3.9151
0.022000	3.8444
0.027000	3.7710
0.032000	3.6941
0.037000	3.6152
0.042000	3.5360
0.047000	3.4565
0.052000	3.3766
0.057000	3.2969
0.062000	3.2171
0.067000	3.1379
0.072000	3.0603
0.077000	2.9849
0.082000	2.9101
0.087000	2.8356
0.092000	2.7627
0.097000	2.6918
0.10200	2.6227
0.10700	2.5550
0.11200	2.4889
0.11700	2.4236
0.12200	2.3606
0.12700	2.2985
0.13200	2.2380
0.13700	2.1790
0.14200	2.1213
0.14700	2.0655
0.15200	2.0102
0.15700	1.9573
0.16200	1.9047
0.16700	1.8550
0.17200	1.8049
0.17700	1.7572
0.18200	1.7091
0.18700	1.6636

Column 1	Column 2
0.19200	1.6211
0.19700	1.5719
0.19800	1.5495
0.19300	1.4942
0.18800	1.4290
0.18300	1.3925
0.17800	1.3512
0.17300	1.3122
0.16800	1.2744
0.16300	1.2375
0.15800	1.2018
0.15300	1.1666
0.14800	1.1330
0.14300	1.0989
0.13800	1.0671
0.13300	1.0359
0.12800	1.0050
0.12300	0.97470
0.11800	0.94535
0.11300	0.91683
0.10800	0.88864
0.10300	0.86072
0.098000	0.83297
0.093000	0.80579
0.088000	0.77901
0.083000	0.75275
0.078000	0.72533
0.073000	0.69789
0.068000	0.67107
0.063000	0.64304
0.058000	0.61370
0.053000	0.58326
0.048000	0.55121
0.043000	0.51726
0.038000	0.48062

Column 1	Column 2
0.033000	0.44048
0.028000	0.39623
0.023000	0.34690
0.018000	0.29218
0.013000	0.23001
0.0080000	0.15933
0.0030000	0.078470
-0.0020000	-0.014480
-0.0070000	-0.11900
-0.012000	-0.23748
-0.017000	-0.37275
-0.022000	-0.52567
-0.027000	-0.69677
-0.032000	-0.88718
-0.037000	-1.0973
-0.042000	-1.3259
-0.047000	-1.5725
-0.052000	-1.8355
-0.057000	-2.1114
-0.062000	-2.3968
-0.067000	-2.6881
-0.072000	-2.9803
-0.077000	-3.2698
-0.082000	-3.5515
-0.087000	-3.8206
-0.092000	-4.0733
-0.097000	-4.3054
-0.10200	-4.5146
-0.10700	-4.6975
-0.11200	-4.8526
-0.11700	-4.9799
-0.12200	-5.0770
-0.12700	-5.1442
-0.13200	-5.1839
-0.13700	-5.1978

Column 1	Column 2
-0.14200	-5.1868
-0.14700	-5.1514
-0.15200	-5.0947
-0.15700	-5.0201
-0.16200	-4.9298
-0.16700	-4.8256
-0.17200	-4.7099
-0.17700	-4.5867
-0.18200	-4.4572
-0.18700	-4.3214
-0.19200	-4.1827
-0.19700	-4.0447
-0.20200	-3.9059
-0.20700	-3.7676
-0.21200	-3.6325
-0.21700	-3.4990
-0.22200	-3.3677
-0.22700	-3.2400
-0.23200	-3.1166
-0.23700	-2.9969
-0.24200	-2.8808
-0.24700	-2.7684
-0.25200	-2.6597
-0.25700	-2.5557
-0.26200	-2.4557
-0.26700	-2.3582
-0.27200	-2.2643
-0.27700	-2.1756
-0.28200	-2.0898
-0.28700	-2.0067
-0.29200	-1.9278
-0.29700	-1.8531
-0.30200	-1.7799
-0.30700	-1.7098
-0.31200	-1.6436

Column 1	Column 2
-0.31700	-1.5798
-0.32200	-1.5183
-0.32700	-1.4590
-0.33200	-1.4030
-0.33700	-1.3479
-0.34200	-1.2981
-0.34700	-1.2456

8.3.29 CV-40

Column 1	Column 2
-0.34800	-1.2072
-0.34300	-1.1539
-0.33800	-1.0892
-0.33300	-1.0497
-0.32800	-1.0057
-0.32300	-0.96614
-0.31800	-0.92766
-0.31300	-0.88990
-0.30800	-0.85487
-0.30300	-0.82079
-0.29800	-0.78834
-0.29300	-0.75623
-0.28800	-0.72558
-0.28300	-0.69607
-0.27800	-0.66786
-0.27300	-0.63988
-0.26800	-0.61275
-0.26300	-0.58666
-0.25800	-0.56138
-0.25300	-0.53587
-0.24800	-0.51048
-0.24300	-0.48599
-0.23800	-0.46124
-0.23300	-0.43614
-0.22800	-0.41014

Column 1	Column 2
-0.22300	-0.38352
-0.21800	-0.35565
-0.21300	-0.32620
-0.20800	-0.29491
-0.20300	-0.26077
-0.19800	-0.22348
-0.19300	-0.18280
-0.18800	-0.13814
-0.18300	-0.088720
-0.17800	-0.033400
-0.17300	0.028980
-0.16800	0.098080
-0.16300	0.17487
-0.15800	0.26102
-0.15300	0.35699
-0.14800	0.46258
-0.14300	0.57889
-0.13800	0.70753
-0.13300	0.84856
-0.12800	1.0020
-0.12300	1.1686
-0.11800	1.3488
-0.11300	1.5429
-0.10800	1.7515
-0.10300	1.9734
-0.098000	2.2074
-0.093000	2.4536
-0.088000	2.7100
-0.083000	2.9735
-0.078000	3.2422
-0.073000	3.5128
-0.068000	3.7802
-0.063000	4.0399
-0.058000	4.2871
-0.053000	4.5170

Column 1	Column 2
-0.048000	4.7236
-0.043000	4.9013
-0.038000	5.0480
-0.033000	5.1615
-0.028000	5.2400
-0.023000	5.2851
-0.018000	5.2983
-0.013000	5.2819
-0.0080000	5.2405
-0.0030000	5.1769
0.0020000	5.0946
0.0070000	4.9980
0.012000	4.8895
0.017000	4.7710
0.022000	4.6462
0.027000	4.5178
0.032000	4.3862
0.037000	4.2535
0.042000	4.1205
0.047000	3.9873
0.052000	3.8561
0.057000	3.7274
0.062000	3.5999
0.067000	3.4748
0.072000	3.3531
0.077000	3.2343
0.082000	3.1191
0.087000	3.0075
0.092000	2.8981
0.097000	2.7918
0.10200	2.6902
0.10700	2.5910
0.11200	2.4946
0.11700	2.4023
0.12200	2.3128

Column 1	Column 2
0.12700	2.2262
0.13200	2.1427
0.13700	2.0628
0.14200	1.9853
0.14700	1.9102
0.15200	1.8383
0.15700	1.7692
0.16200	1.7018
0.16700	1.6373
0.17200	1.5757
0.17700	1.5154
0.18200	1.4582
0.18700	1.4022
0.19200	1.3511
0.19700	1.2957
0.19800	1.2568
0.19300	1.1743
0.18800	1.1366
0.18300	1.0878
0.17800	1.0431
0.17300	1.0003
0.16800	0.95827
0.16300	0.91924
0.15800	0.88031
0.15300	0.84405
0.14800	0.80833
0.14300	0.77451
0.13800	0.74136
0.13300	0.71011
0.12800	0.67954
0.12300	0.64940
0.11800	0.62118
0.11300	0.59312
0.10800	0.56589
0.10300	0.53941

Column 1	Column 2
0.098000	0.51339
0.093000	0.48769
0.088000	0.46243
0.083000	0.43703
0.078000	0.41144
0.073000	0.38538
0.068000	0.35898
0.063000	0.33161
0.058000	0.30231
0.053000	0.27144
0.048000	0.23785
0.043000	0.20083
0.038000	0.16027
0.033000	0.11519
0.028000	0.063430
0.023000	0.0046600
0.018000	-0.062080
0.013000	-0.13935
0.0080000	-0.22818
0.0030000	-0.33158
-0.0020000	-0.45163
-0.0070000	-0.58814
-0.012000	-0.74414
-0.017000	-0.92270
-0.022000	-1.1246
-0.027000	-1.3509
-0.032000	-1.6018
-0.037000	-1.8775
-0.042000	-2.1766
-0.047000	-2.4959
-0.052000	-2.8337
-0.057000	-3.1844
-0.062000	-3.5421
-0.067000	-3.9028
-0.072000	-4.2594

Column 1	Column 2
-0.077000	-4.6051
-0.082000	-4.9337
-0.087000	-5.2391
-0.092000	-5.5165
-0.097000	-5.7609
-0.10200	-5.9702
-0.10700	-6.1403
-0.11200	-6.2689
-0.11700	-6.3577
-0.12200	-6.4058
-0.12700	-6.4139
-0.13200	-6.3844
-0.13700	-6.3210
-0.14200	-6.2264
-0.14700	-6.1026
-0.15200	-5.9560
-0.15700	-5.7886
-0.16200	-5.6027
-0.16700	-5.4058
-0.17200	-5.2000
-0.17700	-4.9869
-0.18200	-4.7721
-0.18700	-4.5568
-0.19200	-4.3412
-0.19700	-4.1293
-0.20200	-3.9234
-0.20700	-3.7234
-0.21200	-3.5299
-0.21700	-3.3440
-0.22200	-3.1647
-0.22700	-2.9934
-0.23200	-2.8304
-0.23700	-2.6751
-0.24200	-2.5279
-0.24700	-2.3883

Column 1	Column 2
-0.25200	-2.2567
-0.25700	-2.1320
-0.26200	-2.0137
-0.26700	-1.9009
-0.27200	-1.7957
-0.27700	-1.6973
-0.28200	-1.6050
-0.28700	-1.5175
-0.29200	-1.4355
-0.29700	-1.3586
-0.30200	-1.2839
-0.30700	-1.2137
-0.31200	-1.1477
-0.31700	-1.0875
-0.32200	-1.0302
-0.32700	-0.97779
-0.33200	-0.92710
-0.33700	-0.87959
-0.34200	-0.83620
-0.34700	-0.78893

8.3.30 CV-41

Column 1	Column 2
-0.34800	-0.76412
-0.34300	-0.73065
-0.33800	-0.65631
-0.33300	-0.62861
-0.32800	-0.59289
-0.32300	-0.56166
-0.31800	-0.53236
-0.31300	-0.50264
-0.30800	-0.47695
-0.30300	-0.45079
-0.29800	-0.42736
-0.29300	-0.40372

Column 1	Column 2
-0.28800	-0.38248
-0.28300	-0.36101
-0.27800	-0.34105
-0.27300	-0.32145
-0.26800	-0.30206
-0.26300	-0.28372
-0.25800	-0.26535
-0.25300	-0.24727
-0.24800	-0.22859
-0.24300	-0.21038
-0.23800	-0.19149
-0.23300	-0.17225
-0.22800	-0.15219
-0.22300	-0.13062
-0.21800	-0.10702
-0.21300	-0.081610
-0.20800	-0.053540
-0.20300	-0.021940
-0.19800	0.013430
-0.19300	0.053570
-0.18800	0.098500
-0.18300	0.14977
-0.17800	0.20778
-0.17300	0.27414
-0.16800	0.34961
-0.16300	0.43378
-0.15800	0.52883
-0.15300	0.63632
-0.14800	0.75650
-0.14300	0.89021
-0.13800	1.0383
-0.13300	1.2022
-0.12800	1.3831
-0.12300	1.5810
-0.11800	1.7968

Column 1	Column 2
-0.11300	2.0313
-0.10800	2.2852
-0.10300	2.5579
-0.098000	2.8480
-0.093000	3.1556
-0.088000	3.4792
-0.083000	3.8150
-0.078000	4.1594
-0.073000	4.5087
-0.068000	4.8566
-0.063000	5.1955
-0.058000	5.5183
-0.053000	5.8170
-0.048000	6.0826
-0.043000	6.3076
-0.038000	6.4859
-0.033000	6.6136
-0.028000	6.6897
-0.023000	6.7121
-0.018000	6.6843
-0.013000	6.6134
-0.0080000	6.5027
-0.0030000	6.3582
0.0020000	6.1885
0.0070000	5.9976
0.012000	5.7894
0.017000	5.5710
0.022000	5.3465
0.027000	5.1190
0.032000	4.8904
0.037000	4.6630
0.042000	4.4402
0.047000	4.2225
0.052000	4.0104
0.057000	3.8056

Column 1	Column 2
0.062000	3.6079
0.067000	3.4174
0.072000	3.2352
0.077000	3.0603
0.082000	2.8936
0.087000	2.7351
0.092000	2.5842
0.097000	2.4401
0.10200	2.3026
0.10700	2.1730
0.11200	2.0507
0.11700	1.9346
0.12200	1.8241
0.12700	1.7195
0.13200	1.6207
0.13700	1.5284
0.14200	1.4404
0.14700	1.3576
0.15200	1.2796
0.15700	1.2057
0.16200	1.1367
0.16700	1.0706
0.17200	1.0096
0.17700	0.95033
0.18200	0.89718
0.18700	0.84438
0.19200	0.79772
0.19700	0.74857
0.19800	0.70778
0.19300	0.62333
0.18800	0.61232
0.18300	0.56601
0.17800	0.53108
0.17300	0.49680
0.16800	0.46399

Column 1	Column 2
0.16300	0.43545
0.15800	0.40596
0.15300	0.38063
0.14800	0.35491
0.14300	0.33123
0.13800	0.30815
0.13300	0.28723
0.12800	0.26680
0.12300	0.24716
0.11800	0.22843
0.11300	0.20956
0.10800	0.19179
0.10300	0.17452
0.098000	0.15797
0.093000	0.14061
0.088000	0.12362
0.083000	0.10616
0.078000	0.087600
0.073000	0.067900
0.068000	0.046400
0.063000	0.022730
0.058000	-0.0034300
0.053000	-0.032360
0.048000	-0.065920
0.043000	-0.10492
0.038000	-0.14995
0.033000	-0.20247
0.028000	-0.26578
0.023000	-0.34065
0.018000	-0.42718
0.013000	-0.52853
0.0080000	-0.64749
0.0030000	-0.78787
-0.0020000	-0.95378
-0.0070000	-1.1450

Column 1	Column 2
-0.012000	-1.3623
-0.017000	-1.6096
-0.022000	-1.8891
-0.027000	-2.2020
-0.032000	-2.5475
-0.037000	-2.9226
-0.042000	-3.3239
-0.047000	-3.7484
-0.052000	-4.1909
-0.057000	-4.6415
-0.062000	-5.0922
-0.067000	-5.5353
-0.072000	-5.9596
-0.077000	-6.3560
-0.082000	-6.7161
-0.087000	-7.0312
-0.092000	-7.2963
-0.097000	-7.5071
-0.10200	-7.6598
-0.10700	-7.7517
-0.11200	-7.7818
-0.11700	-7.7540
-0.12200	-7.6715
-0.12700	-7.5381
-0.13200	-7.3591
-0.13700	-7.1392
-0.14200	-6.8839
-0.14700	-6.6004
-0.15200	-6.2948
-0.15700	-5.9733
-0.16200	-5.6437
-0.16700	-5.3099
-0.17200	-4.9757
-0.17700	-4.6460
-0.18200	-4.3267

Column 1	Column 2
-0.18700	-4.0196
-0.19200	-3.7243
-0.19700	-3.4444
-0.20200	-3.1810
-0.20700	-2.9337
-0.21200	-2.7021
-0.21700	-2.4861
-0.22200	-2.2864
-0.22700	-2.1025
-0.23200	-1.9334
-0.23700	-1.7781
-0.24200	-1.6351
-0.24700	-1.5039
-0.25200	-1.3836
-0.25700	-1.2731
-0.26200	-1.1728
-0.26700	-1.0798
-0.27200	-0.99454
-0.27700	-0.91652
-0.28200	-0.84547
-0.28700	-0.77991
-0.29200	-0.72017
-0.29700	-0.66553
-0.30200	-0.61429
-0.30700	-0.56835
-0.31200	-0.52616
-0.31700	-0.48832
-0.32200	-0.45134
-0.32700	-0.41996
-0.33200	-0.38880
-0.33700	-0.36204
-0.34200	-0.33760
-0.34700	-0.30939

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Column 1	Column 2
-0.34800	-0.29552
-0.34300	-0.27808
-0.33800	-0.23385
-0.33300	-0.22025
-0.32800	-0.20136
-0.32300	-0.18530
-0.31800	-0.17131
-0.31300	-0.15620
-0.30800	-0.14457
-0.30300	-0.13133
-0.29800	-0.12077
-0.29300	-0.11003
-0.28800	-0.10035
-0.28300	-0.090160
-0.27800	-0.081050
-0.27300	-0.072150
-0.26800	-0.062750
-0.26300	-0.053850
-0.25800	-0.044480
-0.25300	-0.034810
-0.24800	-0.024400
-0.24300	-0.013990
-0.23800	-0.0017000
-0.23300	0.011890
-0.22800	0.026760
-0.22300	0.043310
-0.21800	0.062750
-0.21300	0.085270
-0.20800	0.11109
-0.20300	0.14188
-0.19800	0.17704
-0.19300	0.21808
-0.18800	0.26635
-0.18300	0.32207

Column 1	Column 2
-0.17800	0.38614
-0.17300	0.46051
-0.16800	0.54621
-0.16300	0.64392
-0.15800	0.75497
-0.15300	0.88121
-0.14800	1.0233
-0.14300	1.1825
-0.13800	1.3613
-0.13300	1.5595
-0.12800	1.7800
-0.12300	2.0247
-0.11800	2.2932
-0.11300	2.5872
-0.10800	2.9080
-0.10300	3.2560
-0.098000	3.6304
-0.093000	4.0309
-0.088000	4.4550
-0.083000	4.8990
-0.078000	5.3581
-0.073000	5.8251
-0.068000	6.2903
-0.063000	6.7431
-0.058000	7.1709
-0.053000	7.5600
-0.048000	7.8967
-0.043000	8.1661
-0.038000	8.3571
-0.033000	8.4636
-0.028000	8.4813
-0.023000	8.4117
-0.018000	8.2605
-0.013000	8.0370
-0.0080000	7.7530

Column 1	Column 2
-0.0030000	7.4215
0.0020000	7.0554
0.0070000	6.6636
0.012000	6.2575
0.017000	5.8482
0.022000	5.4418
0.027000	5.0443
0.032000	4.6597
0.037000	4.2920
0.042000	3.9430
0.047000	3.6136
0.052000	3.3048
0.057000	3.0163
0.062000	2.7488
0.067000	2.5016
0.072000	2.2739
0.077000	2.0634
0.082000	1.8705
0.087000	1.6950
0.092000	1.5349
0.097000	1.3889
0.10200	1.2559
0.10700	1.1354
0.11200	1.0267
0.11700	0.92847
0.12200	0.83916
0.12700	0.75897
0.13200	0.68610
0.13700	0.62128
0.14200	0.56243
0.14700	0.50939
0.15200	0.46268
0.15700	0.41977
0.16200	0.38215
0.16700	0.34787

Column 1	Column 2
0.17200	0.31881
0.17700	0.29038
0.18200	0.26772
0.18700	0.24596
0.19200	0.22786
0.19700	0.20972
0.19800	0.17619
0.19300	0.14532
0.18800	0.14748
0.18300	0.12794
0.17800	0.11542
0.17300	0.10404
0.16800	0.093220
0.16300	0.084640
0.15800	0.075240
0.15300	0.068160
0.14800	0.060870
0.14300	0.054280
0.13800	0.047570
0.13300	0.041580
0.12800	0.035180
0.12300	0.028650
0.11800	0.022480
0.11300	0.015410
0.10800	0.0074600
0.10300	-8.1825E-4
0.098000	-0.0096100
0.093000	-0.020600
0.088000	-0.032780
0.083000	-0.046790
0.078000	-0.063050
0.073000	-0.082000
0.068000	-0.10476
0.063000	-0.13196
0.058000	-0.16459

Column 1	Column 2
0.053000	-0.20318
0.048000	-0.24958
0.043000	-0.30547
0.038000	-0.37185
0.033000	-0.45084
0.028000	-0.54518
0.023000	-0.65669
0.018000	-0.78926
0.013000	-0.94630
0.0080000	-1.1292
0.0030000	-1.3443
-0.0020000	-1.5962
-0.0070000	-1.8836
-0.012000	-2.2098
-0.017000	-2.5790
-0.022000	-2.9920
-0.027000	-3.4470
-0.032000	-3.9401
-0.037000	-4.4680
-0.042000	-5.0218
-0.047000	-5.5913
-0.052000	-6.1665
-0.057000	-6.7311
-0.062000	-7.2700
-0.067000	-7.7699
-0.072000	-8.2156
-0.077000	-8.5941
-0.082000	-8.8941
-0.087000	-9.1065
-0.092000	-9.2266
-0.097000	-9.2535
-0.10200	-9.1876
-0.10700	-9.0306
-0.11200	-8.7919
-0.11700	-8.4786

Column 1	Column 2
-0.12200	-8.0971
-0.12700	-7.6657
-0.13200	-7.1990
-0.13700	-6.7095
-0.14200	-6.2095
-0.14700	-5.7080
-0.15200	-5.2147
-0.15700	-4.7360
-0.16200	-4.2785
-0.16700	-3.8460
-0.17200	-3.4406
-0.17700	-3.0657
-0.18200	-2.7234
-0.18700	-2.4138
-0.19200	-2.1346
-0.19700	-1.8838
-0.20200	-1.6604
-0.20700	-1.4620
-0.21200	-1.2862
-0.21700	-1.1310
-0.22200	-0.99392
-0.22700	-0.87352
-0.23200	-0.76802
-0.23700	-0.67493
-0.24200	-0.59319
-0.24700	-0.52209
-0.25200	-0.45948
-0.25700	-0.40434
-0.26200	-0.35687
-0.26700	-0.31478
-0.27200	-0.27813
-0.27700	-0.24612
-0.28200	-0.21815
-0.28700	-0.19370
-0.29200	-0.17259

Column 1	Column 2
-0.29700	-0.15423
-0.30200	-0.13785
-0.30700	-0.12412
-0.31200	-0.11214
-0.31700	-0.10248
-0.32200	-0.092690
-0.32700	-0.085900
-0.33200	-0.078860
-0.33700	-0.073720
-0.34200	-0.070160
-0.34700	-0.061920

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Column 1	Column 2
-0.29552	-0.056750
-0.27808	-0.051030
-0.23385	-0.037870
-0.22025	-0.035390
-0.20136	-0.030250
-0.18530	-0.026400
-0.17131	-0.023500
-0.15620	-0.019820
-0.14457	-0.017210
-0.13133	-0.013930
-0.12077	-0.011630
-0.11003	-0.0089300
-0.10035	-0.0059100
-0.090160	-0.0025800
-0.081050	5.5869E-4
-0.072150	0.0042300
-0.062750	0.0086500
-0.053850	0.013150
-0.044480	0.018470
-0.034810	0.025140
-0.024400	0.032490

Column 1	Column 2
-0.013990	0.040470
-0.0017000	0.050670
0.011890	0.062930
0.026760	0.077230
0.043310	0.093860
0.062750	0.11405
0.085270	0.13824
0.11109	0.16679
0.14188	0.20093
0.17704	0.24052
0.21808	0.28715
0.26635	0.34242
0.32207	0.40658
0.38614	0.48097
0.46051	0.56762
0.54621	0.66756
0.64392	0.78194
0.75497	0.91265
0.88121	1.0618
1.0233	1.2303
1.1825	1.4206
1.3613	1.6359
1.5595	1.8773
1.7800	2.1476
2.0247	2.4497
2.2932	2.7853
2.5872	3.1578
2.9080	3.5692
3.2560	4.0214
3.6304	4.5139
4.0309	5.0461
4.4550	5.6151
4.8990	6.2142
5.3581	6.8357
5.8251	7.4688

Column 1	Column 2
6.2903	8.0964
6.7431	8.6977
7.1709	9.2489
7.5600	9.7254
7.8967	10.101
8.1661	10.350
8.3571	10.453
8.4636	10.399
8.4813	10.189
8.4117	9.8311
8.2605	9.3429
8.0370	8.7524
7.7530	8.0883
7.4215	7.3834
7.0554	6.6670
6.6636	5.9540
6.2575	5.2666
5.8482	4.6226
5.4418	4.0291
5.0443	3.4901
4.6597	3.0062
4.2920	2.5777
3.9430	2.2010
3.6136	1.8730
3.3048	1.5906
3.0163	1.3475
2.7488	1.1397
2.5016	0.96370
2.2739	0.81517
2.0634	0.68974
1.8705	0.58423
1.6950	0.49630
1.5349	0.42328
1.3889	0.36245
1.2559	0.31246

Column 1	Column 2
1.1354	0.27115
1.0267	0.23663
0.92847	0.20908
0.83916	0.18674
0.75897	0.16831
0.68610	0.15330
0.62128	0.14168
0.56243	0.13202
0.50939	0.12421
0.46268	0.11815
0.41977	0.11254
0.38215	0.10812
0.34787	0.10449
0.31881	0.10149
0.29038	0.097440
0.26772	0.094740
0.24596	0.091720
0.22786	0.089770
0.20972	0.083560
0.17619	0.067430
0.14532	0.051300
0.14748	0.051360
0.12794	0.042790
0.11542	0.036750
0.10404	0.030540
0.093220	0.025400
0.084640	0.020680
0.075240	0.015330
0.068160	0.010460
0.060870	0.0055000
0.054280	6.1494E-4
0.047570	-0.0051400
0.041580	-0.010830
0.035180	-0.017510
0.028650	-0.025310

Column 1	Column 2
0.022480	-0.033180
0.015410	-0.042740
0.0074600	-0.054210
-8.1825E-4	-0.067310
-0.0096100	-0.082610
-0.020600	-0.10072
-0.032780	-0.12206
-0.046790	-0.14735
-0.063050	-0.17693
-0.082000	-0.21085
-0.10476	-0.25038
-0.13196	-0.29691
-0.16459	-0.35064
-0.20318	-0.41238
-0.24958	-0.48458
-0.30547	-0.56930
-0.37185	-0.66960
-0.45084	-0.78917
-0.54518	-0.93255
-0.65669	-1.1050
-0.78926	-1.3112
-0.94630	-1.5573
-1.1292	-1.8457
-1.3443	-2.1861
-1.5962	-2.5832
-1.8836	-3.0281
-2.2098	-3.5269
-2.5790	-4.0846
-2.9920	-4.6943
-3.4470	-5.3483
-3.9401	-6.0373
-4.4680	-6.7473
-5.0218	-7.4578
-5.5913	-8.1503
-6.1665	-8.7980

Column 1	Column 2
-6.7311	-9.3755
-7.2700	-9.8666
-7.7699	-10.245
-8.2156	-10.488
-8.5941	-10.588
-8.8941	-10.535
-9.1065	-10.330
-9.2266	-9.9830
-9.2535	-9.5052
-9.1876	-8.9222
-9.0306	-8.2637
-8.7919	-7.5573
-8.4786	-6.8309
-8.0971	-6.1041
-7.6657	-5.3989
-7.1990	-4.7367
-6.7095	-4.1297
-6.2095	-3.5807
-5.7080	-3.0890
-5.2147	-2.6562
-4.7360	-2.2774
-4.2785	-1.9468
-3.8460	-1.6611
-3.4406	-1.4146
-3.0657	-1.2029
-2.7234	-1.0220
-2.4138	-0.86731
-2.1346	-0.73560
-1.8838	-0.62380
-1.6604	-0.52846
-1.4620	-0.44787
-1.2862	-0.37976
-1.1310	-0.32198
-0.99392	-0.27317
-0.87352	-0.23246

Column 1	Column 2
-0.76802	-0.19836
-0.67493	-0.16936
-0.59319	-0.14530
-0.52209	-0.12570
-0.45948	-0.10931
-0.40434	-0.095600
-0.35687	-0.084650
-0.31478	-0.075540
-0.27813	-0.067930
-0.24612	-0.061890
-0.21815	-0.057070
-0.19370	-0.052940
-0.17259	-0.049850
-0.15423	-0.047420
-0.13785	-0.045410
-0.12412	-0.044130
-0.11214	-0.042820
-0.10248	-0.042140
-0.092690	-0.041620
-0.085900	-0.041580
-0.078860	-0.041380
-0.073720	-0.041690
-0.070160	-0.042740
-0.061920	-0.040250

8.3.33 Evaluation 2D

Interactive 2D values

x	y	Value
7.0488	0.17889	0.93308
1.8028	0.86134	0.87319

8.3.34 Table 42

Global Evaluation 1

8.3.35 Table 43

Global Evaluation 1

Time	n_Ox+n_Red (mol)
0.0000	8.4824E-14

8.3.36 Table 44

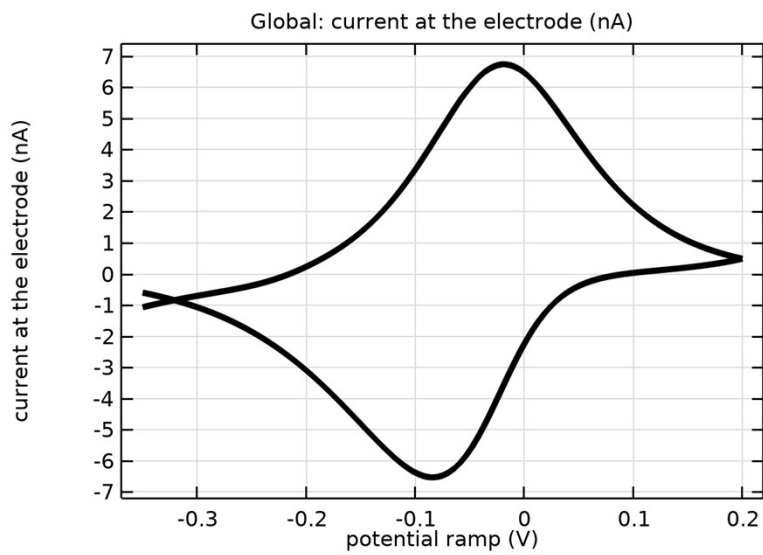
Column 1	Column 2
2.7500	NaN
5.5000	NaN
8.2500	-0.11000
11.000	NaN
13.750	-0.10300
16.500	NaN
19.250	-0.14300
22.000	NaN
24.750	-0.13800
27.500	NaN
30.250	-0.13800
33.000	NaN
35.750	-0.13800
38.500	NaN
41.250	-0.13300
44.000	NaN
46.750	-0.13500
49.500	NaN
52.250	-0.13300
55.000	NaN
57.750	-0.13000
60.500	NaN
63.250	-0.12800
66.000	NaN
68.750	-0.12800
71.500	NaN
74.250	-0.098000
77.000	NaN
79.750	-0.11300
82.500	NaN
85.250	-0.12300

Column 1	Column 2
88.000	NaN
90.750	-0.12300
93.500	NaN
96.250	-0.12300
99.000	NaN
101.75	-0.12300
104.50	NaN
107.25	-0.12300
110.00	NaN
112.75	-0.11800
115.50	NaN
118.25	-0.11600
121.00	NaN
123.75	-0.11400
126.50	NaN
129.25	-0.11400
132.00	NaN
134.75	-0.11300
137.50	NaN
140.25	-0.11000
143.00	NaN
145.75	-0.11300
148.50	NaN
151.25	-0.11500
154.00	NaN
156.75	-0.11200
159.50	NaN
162.25	-0.11000
165.00	NaN
167.75	-0.10800
170.50	NaN
173.25	-0.11000
176.00	NaN
178.75	-0.088000
181.50	NaN

Column 1	Column 2
184.25	-0.070000
187.00	NaN
189.75	-0.085000
192.50	NaN
195.25	-0.081000
198.00	NaN
200.75	-0.079000
203.50	NaN
206.25	-0.077000
209.00	NaN
211.75	-0.072000
214.50	NaN
217.25	-0.065000
220.00	NaN
222.75	-0.067000
225.50	NaN
228.25	-0.062000
231.00	NaN
233.75	-0.050000
236.50	NaN
239.25	-0.034000
242.00	NaN

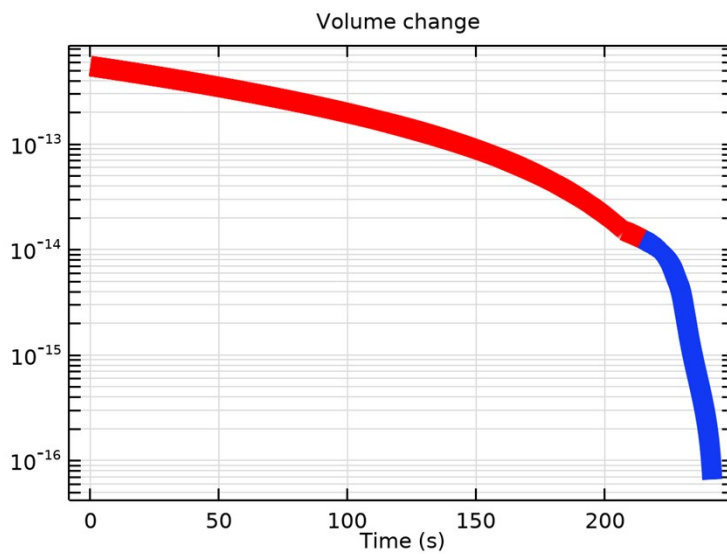
8.4 PLOT GROUPS

8.4.1 voltammogramm



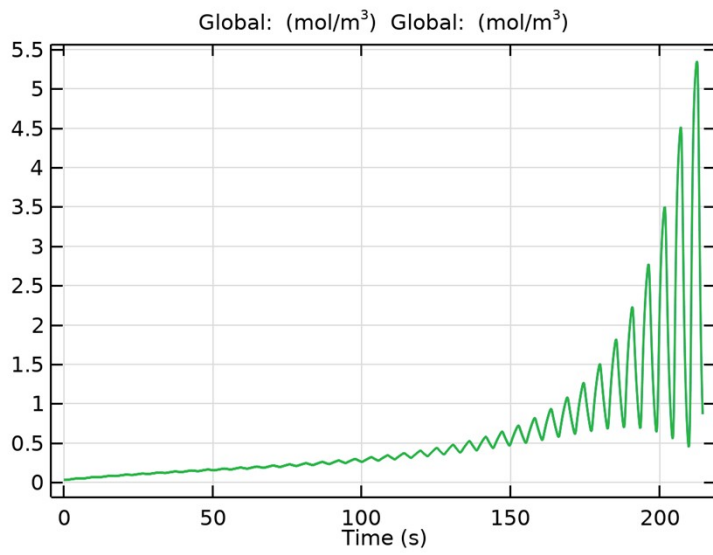
Global: current at the electrode (nA)

8.4.2 droplet's volume vs time



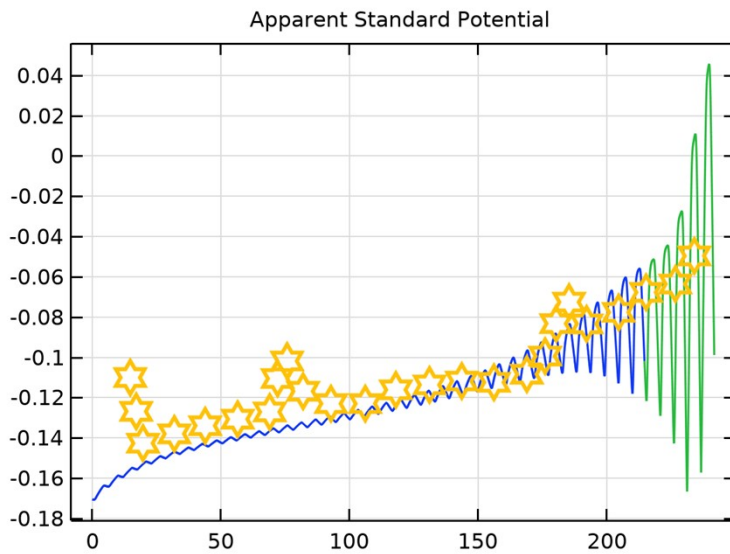
Volume change

8.4.3 Conservation of matter



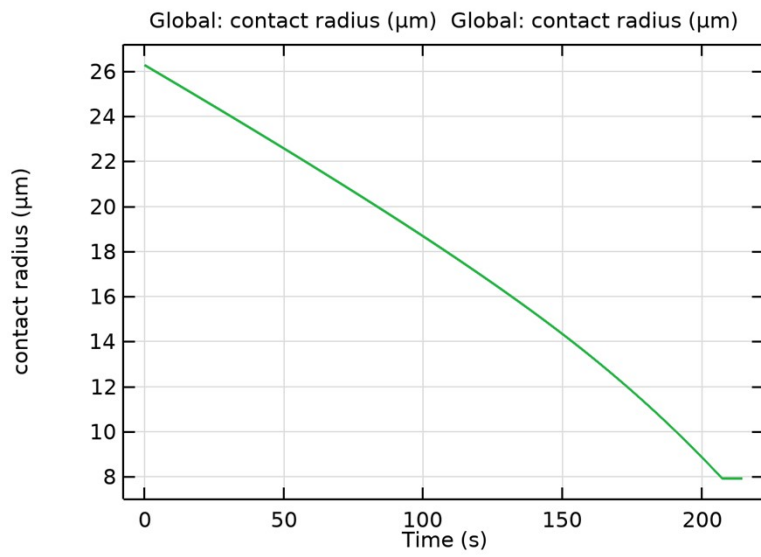
Global: (mol/m³) Global: (mol/m³) Global: (mol) Global: (mol) Global: (mol)

8.4.4 E0'



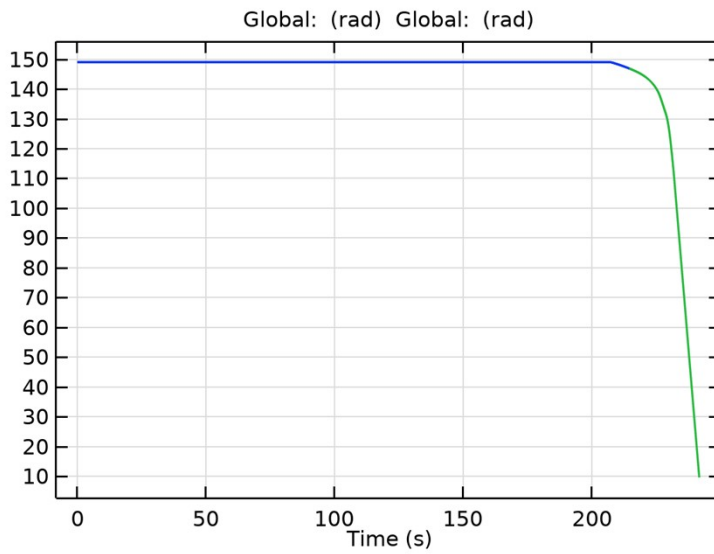
Apparent Standard Potential

8.4.5 contact radius



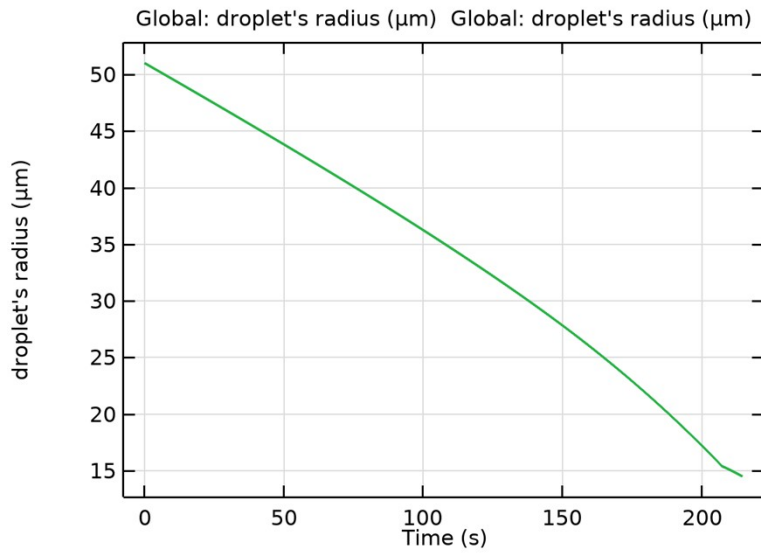
Global: contact radius (μm) Global: contact radius (μm)

8.4.6 contact angle



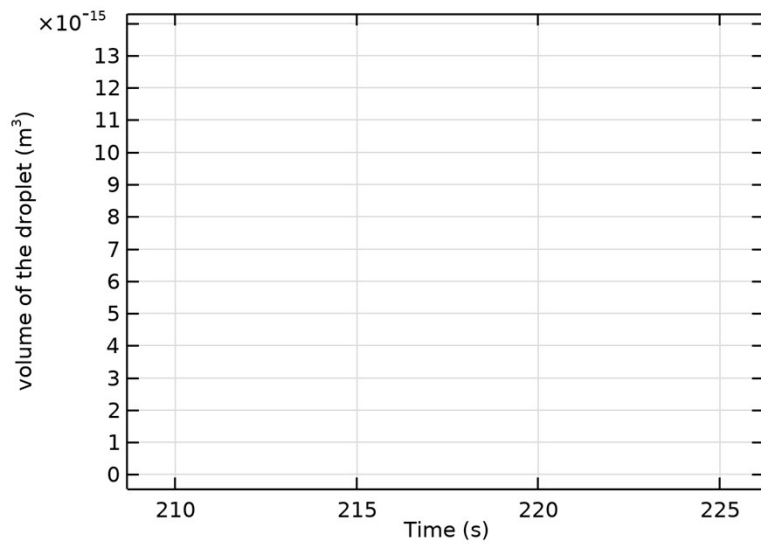
Global: (rad) Global: (rad) Global: (rad) Global: (rad) Global: (rad)

8.4.7 radius



Global: droplet's radius (μm) Global: droplet's radius (μm)

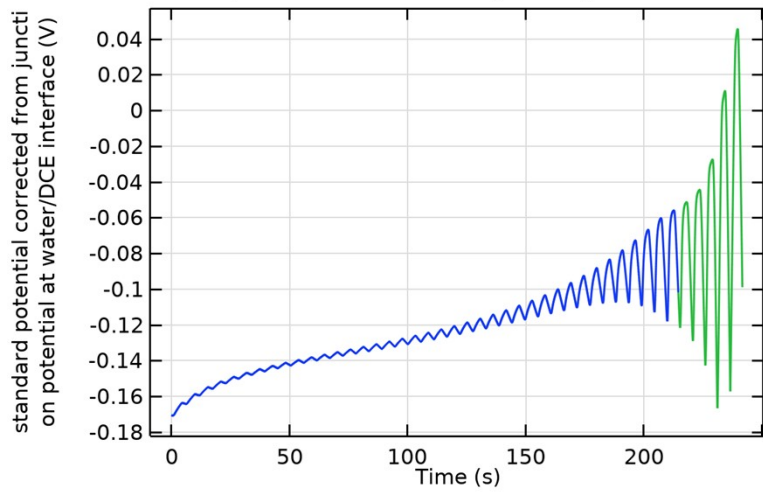
8.4.8 Vang



Point Graph: volume of the droplet (m^3)

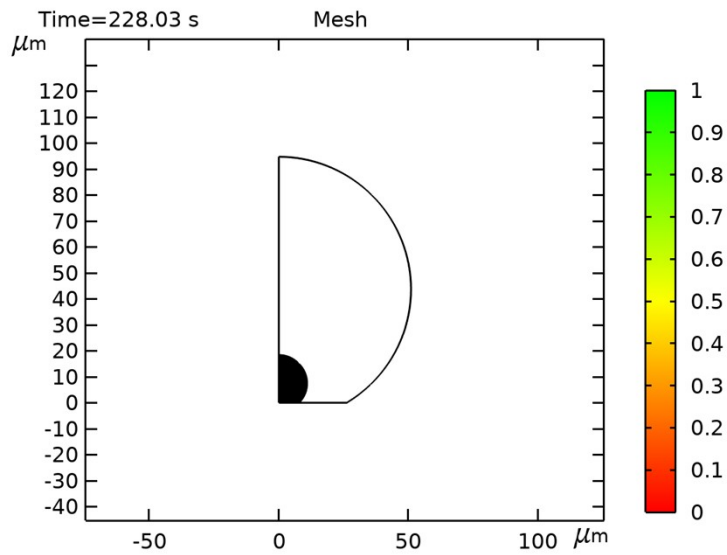
8.4.9 E1/2

Global: standard potential corrected from junction potential at water,
Global: standard potential corrected from junction potential at water,



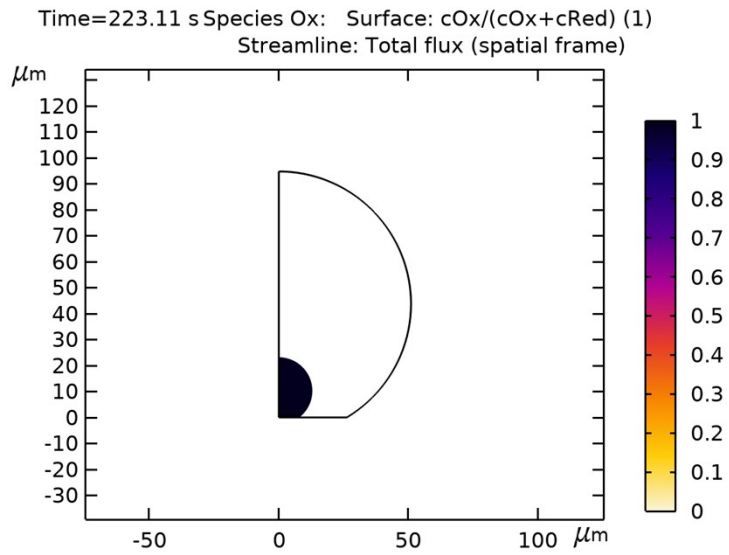
Global: standard potential corrected from junction potential at water/DCE interface (V) Global: standard potential corrected from junction potential at water/DCE interface (V)

8.4.10 Mesh



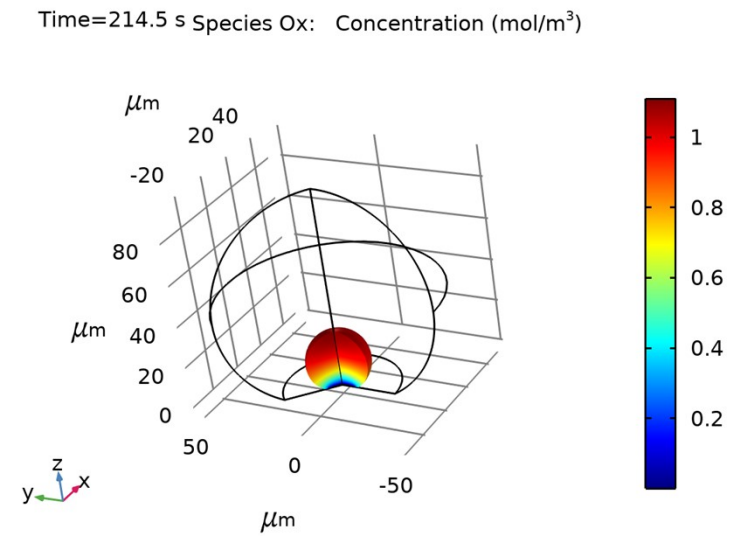
Mesh

8.4.11 Concentration, Ox (tds)



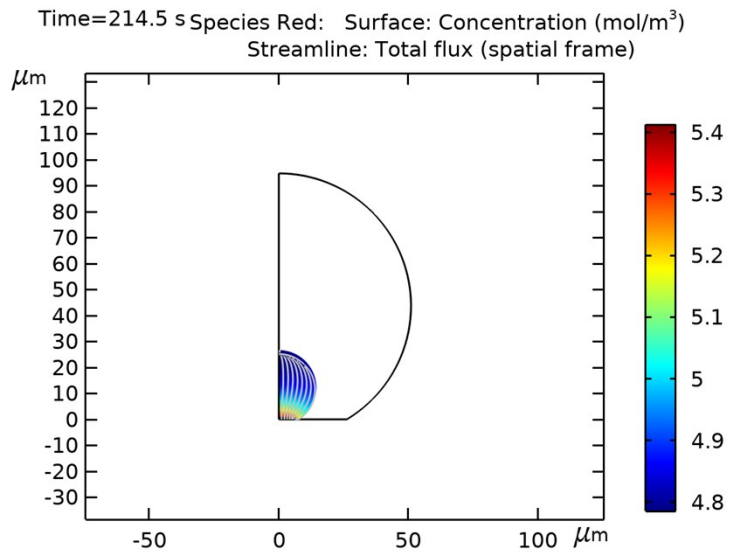
Species Ox: Surface: $c_{Ox}/(c_{Ox}+c_{Red})$ (1) Streamline: Total flux (spatial frame)

8.4.12 Concentration, Ox, 3D (tds)



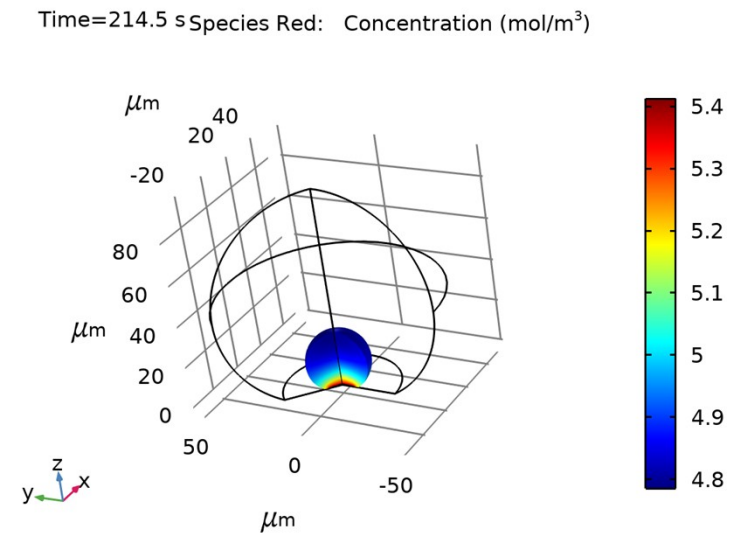
Species Ox: Concentration (mol/m^3)

8.4.13 Concentration, Red (tds)



Species Red: Surface: Concentration (mol/m³) Streamline: Total flux (spatial frame)

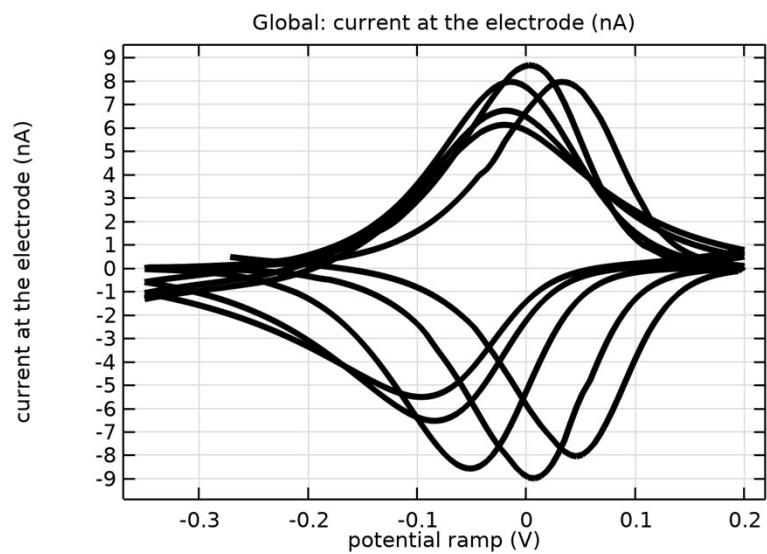
8.4.14 Concentration, Red, 3D (tds)



Species Red: Concentration (mol/m³)

Species Red: Surface: Concentration (mol/m³) Streamline: Total flux (spatial frame)

8.4.15 voltamogramm 1



Global: current at the electrode (nA)