



COMSOL Multiphysics - Geom1/PDE, Coefficient Form (alu) : composite\_SH\_modified.mph

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Geom1  
PDE

Global Expressions

Name	Expression	Unit	Description
VolumeExct	$(x < 0 \text{Exct} + \text{ExctWidth}/2) * (x > \text{XExct} - \text{ExctWidth}/2) * \exp(-y/\text{yMedian}) * \exp(-10 * ((x - \text{XExct})/E...)$		
VolumeExctColumn1	1.7e9		
VolumeExctColumn2	4.7e8		
VolumeExctEMAT1	$(x > 129) * (x < 131) * \text{VolumeExctColumn1} + (x > 134) * (x < 136) * \text{VolumeExctColumn2}$		
VolumeExctColumn3	1.5e9		
VolumeExctColumn4	1e9		
VolumeExctEMAT2	$(x > 134) * (x < 136) * \text{VolumeExctColumn3} + (x > 139) * (x < 141) * \text{VolumeExctColumn4}$		
VolumeExctColumn5	5.25e7		
VolumeExctColumn6	5e8		
VolumeExctEMAT3	$(x > 139) * (x < 141) * \text{VolumeExctColumn5} + (x > 144) * (x < 146) * \text{VolumeExctColumn6}$		

Constants

Name	Expression	Value	Description
rho	1.5	1.5	
C110	$60 + 2.5$	60+2.5i	
C220	$12 + 0.6$	12+0.6i	
C120	$7 + 0.3$	7+0.3i	
C660	$3.5 + 0.15$	3.5+0.15i	
C440	$5 + 0.2$	5+0.2i	
C550	$7 + 0.15$	7+0.15i	
XL	0	0	
XR	250	250	
La	$1.5 * \text{LambdaSH0}$	91.651514	
xleft	$XL + La$	158.348486	
xright	$XR - La$	158.348486	
Fmin	0.025	0.025	
Fmax	0.18	0.18	
LambdaMax	$\text{sqrt}(\text{real}(C110)/\rho) / Fmin$	252.982...	
LambdaMin	$\text{sqrt}(\text{real}(C660)/\rho) / Fmax$	8.486251	
LambdaMean	$(\text{LambdaMin} + \text{LambdaMax}) / 2$	130.734...	
XExct	150	150	
ExctWidth	40	40	
yMedian	$\text{hplate}/2$	2.5	
hplate	5	5	
LambdaSH0	$\text{sqrt}(\text{real}(C660)/\rho) / Fmin$	61.101009	
C330	$60 + 2.5$	60+2.5i	
C230	$7 + 0.3$	7+0.3i	
C130	$3.5 + 0.3$	3.5+0.3i	

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