

Problem info

Problem type: Electrostatics

Geometry model class: Plane-Parallel

Problem database file names:

- Problem: *ES_Plane_X.pbm*
- Geometry: *Es_plane_x.mod*
- Material Data: *Es_plane_x.des*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

Geometry model

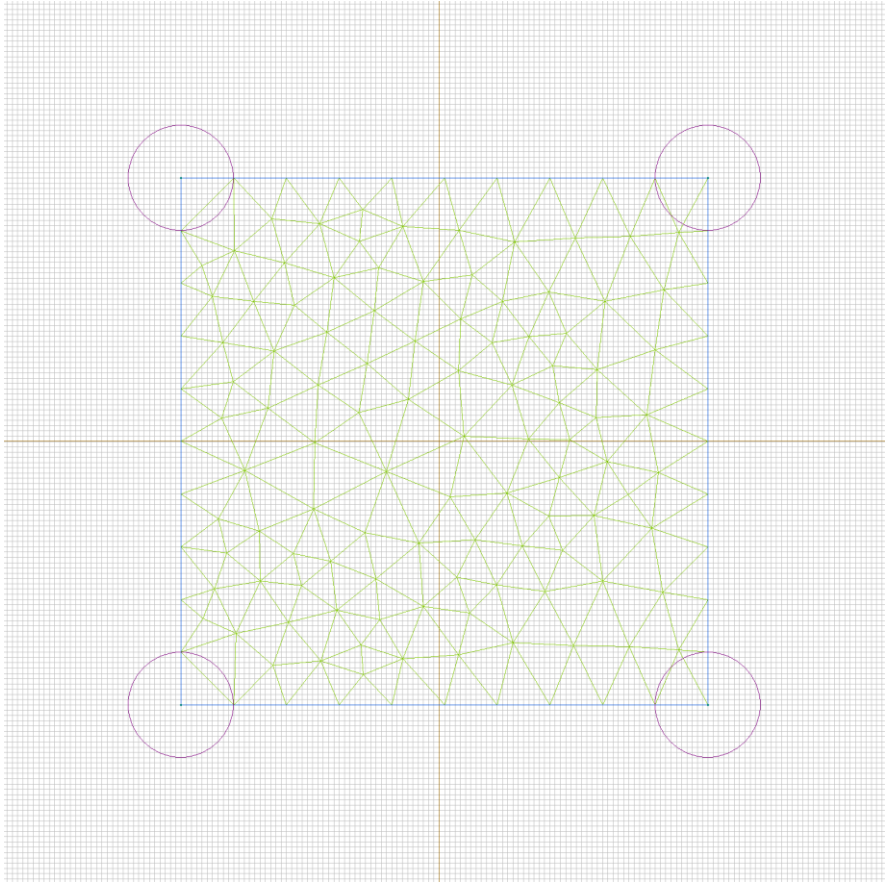


Table 1. Geometry model statistics

	With Label	Total
Blocks	1	1
Edges	2	4
Vertices	0	4

Number of nodes: 140.

Labelled objects

There are following labelled objects in the geometry model (Material Data file could contain more labels, but only those labels that assigned to geometric objects are listed)

Blocks:

- [vacuum](#)
-

Edges:

- [U0](#)
- [U1](#)
-

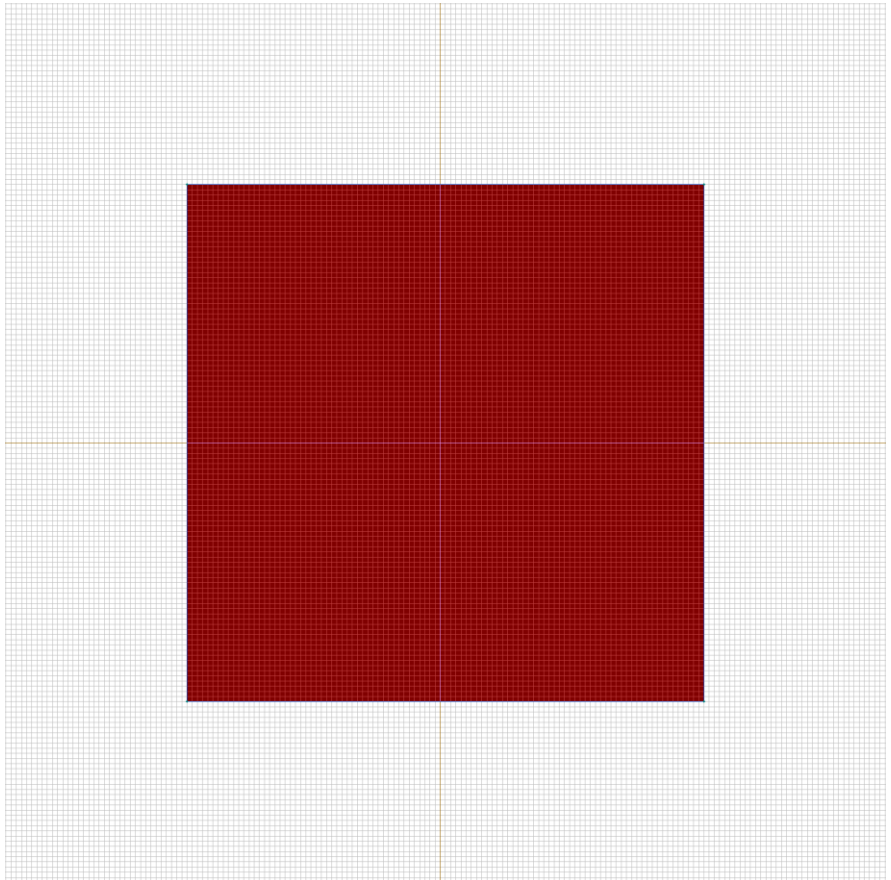
Vertices:

Detailed information about each label is listed below.

Labelled objects: block "vacuum"

There are (1) objects with this label

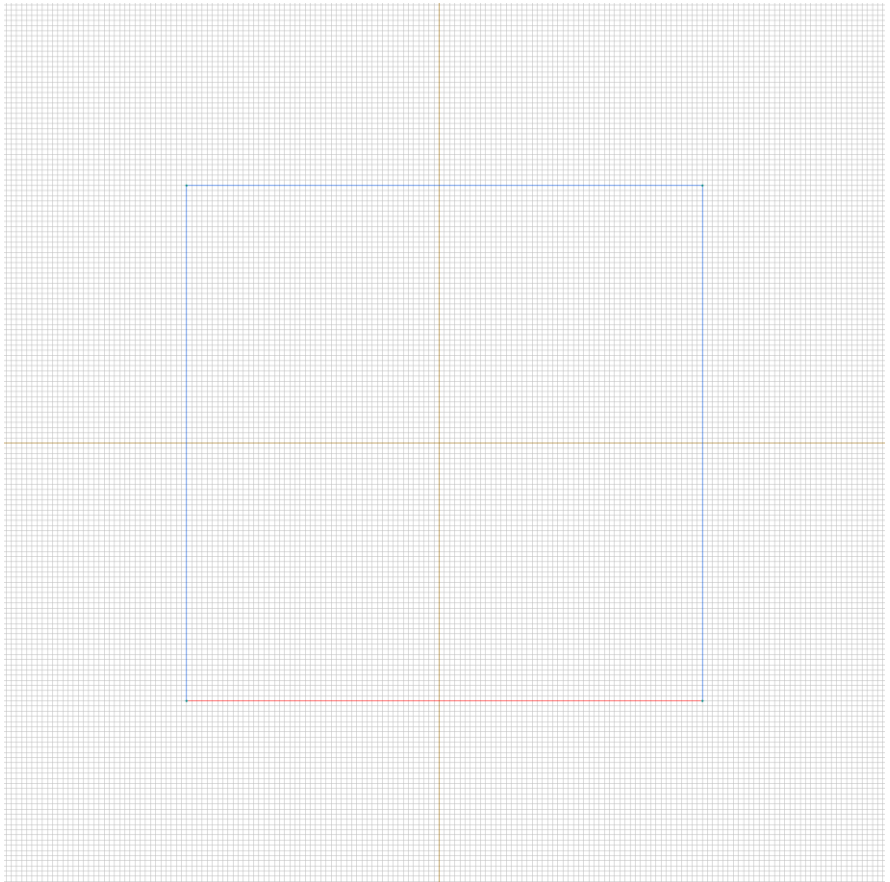
Relative electric permittivity $\epsilon_{x=1}$, $\epsilon_{y=1}$



Labelled objects: edge "U0"

There are (1) objects with this label

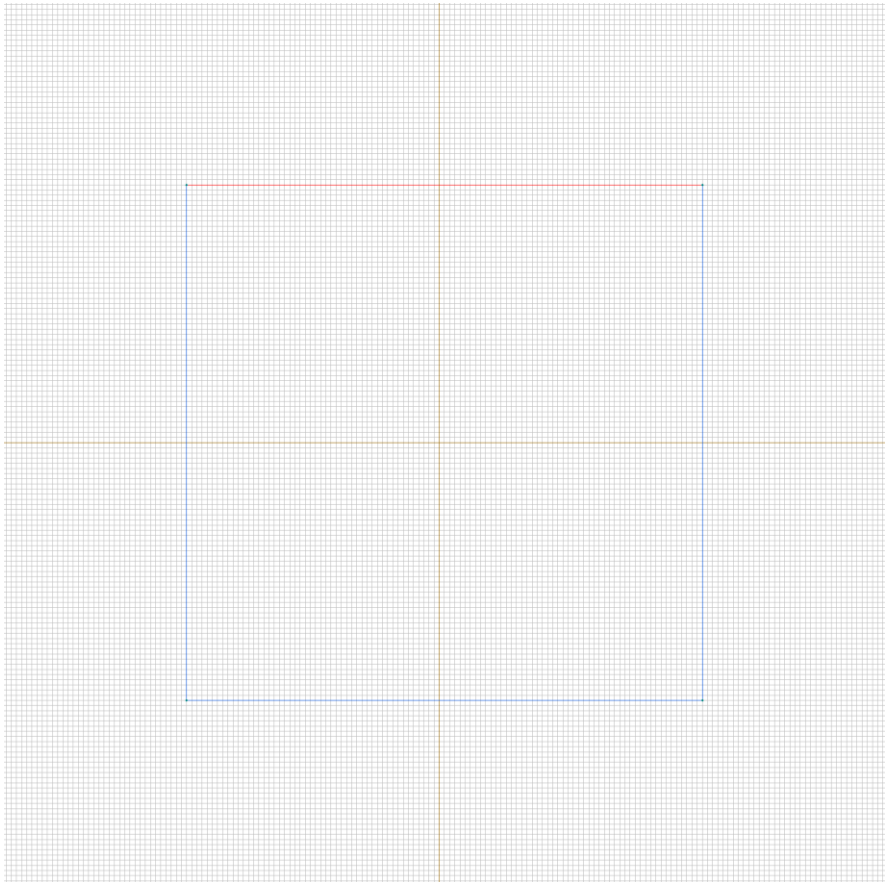
Voltage $U=0$ [V]



Labelled objects: edge "U1"

There are (1) objects with this label

Voltage $U=20$ [V]



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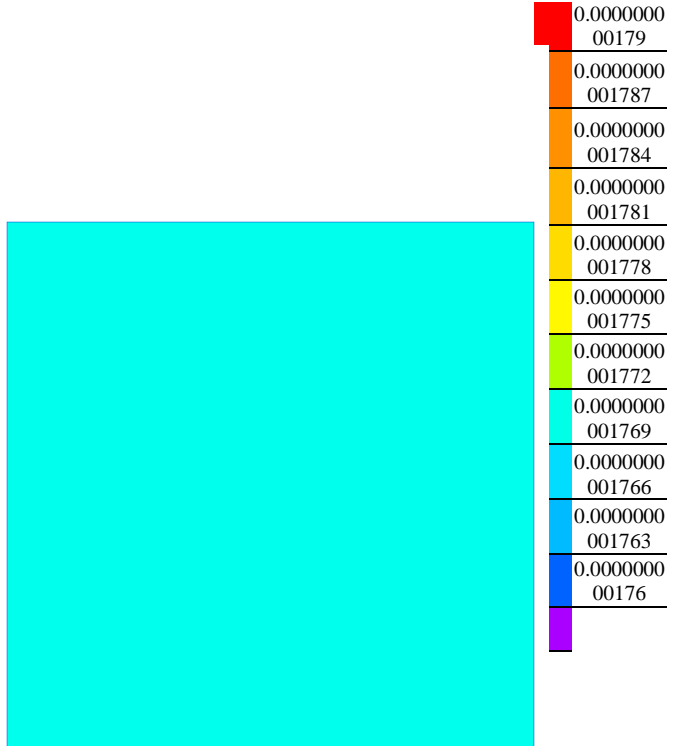
Results

Field lines



Results

Color map of Electric induction $|D|$ [C/m²]



Nonlinear dependencies

No non-linear dependencies are used in this problem data