

# Problem info

Problem type: Electrostatics

Geometry model class: Plane-Parallel

Problem database file names:

- Problem: *nonlinear1.pbm*
- Geometry: *Nonlinear1.mod*
- Material Data: *Nonlinear1.des*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

# Geometry model

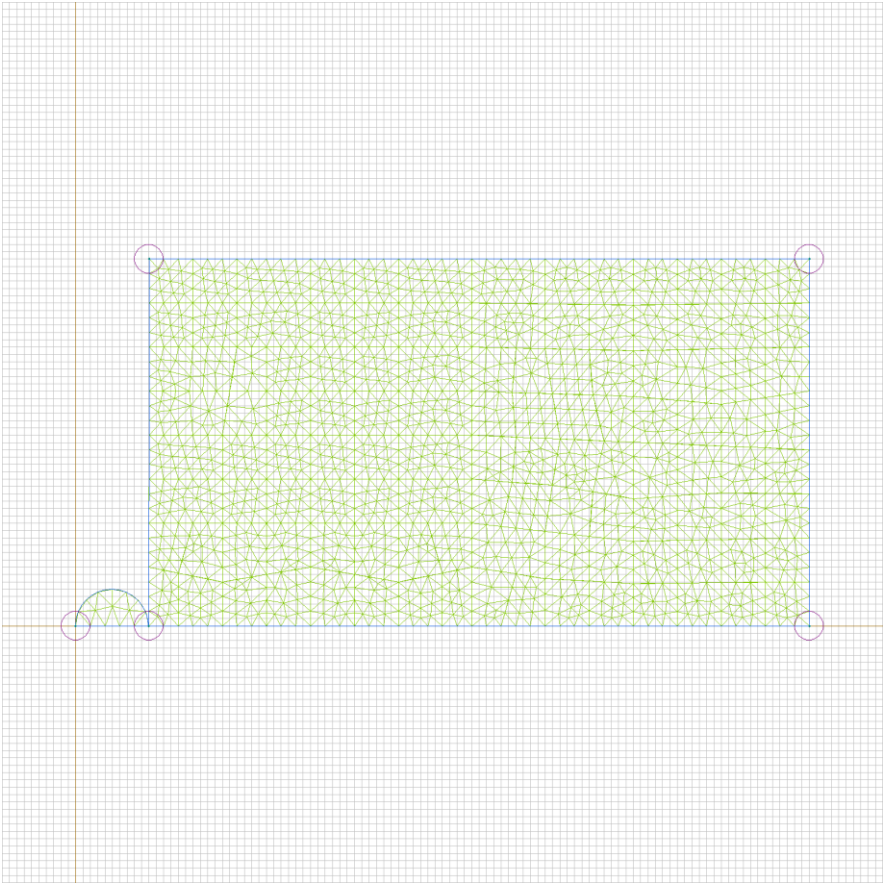


Table 1. Geometry model statistics

	With Label	Total
Blocks	1	2
Edges	0	6
Vertices	1	5

Number of nodes: 1564.

# 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:

- [a](#)
- 

Edges:

Vertices:

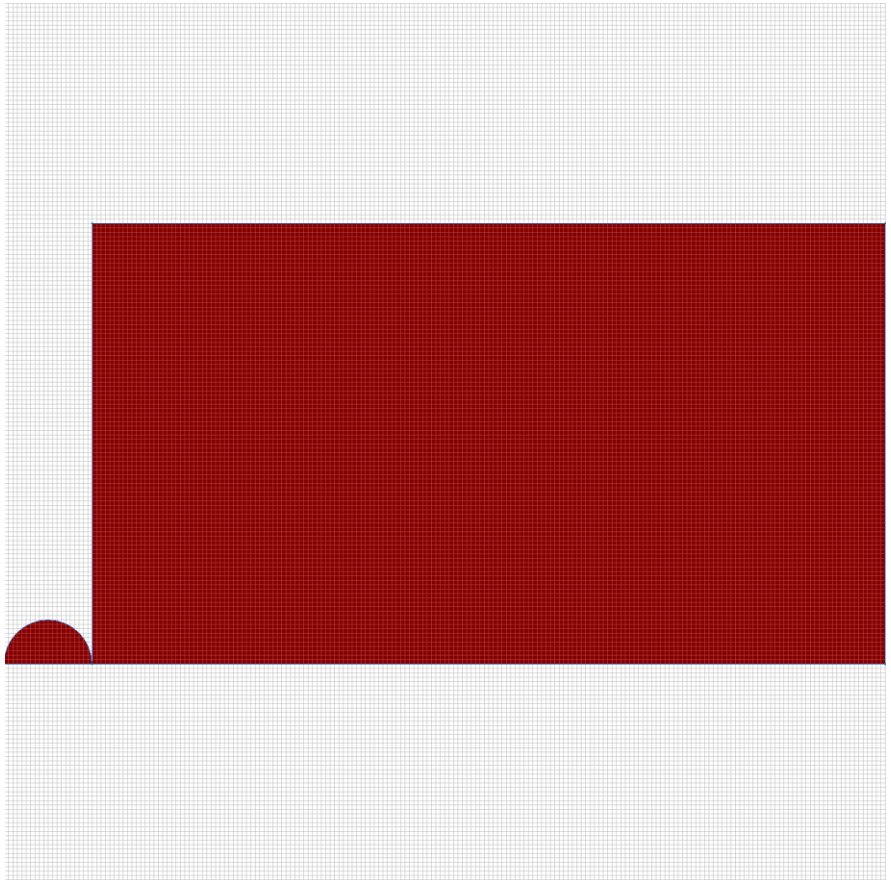
- [p1](#)
- 

Detailed information about each label is listed below.

Labelled objects: block "a"

There are (2) objects with this label

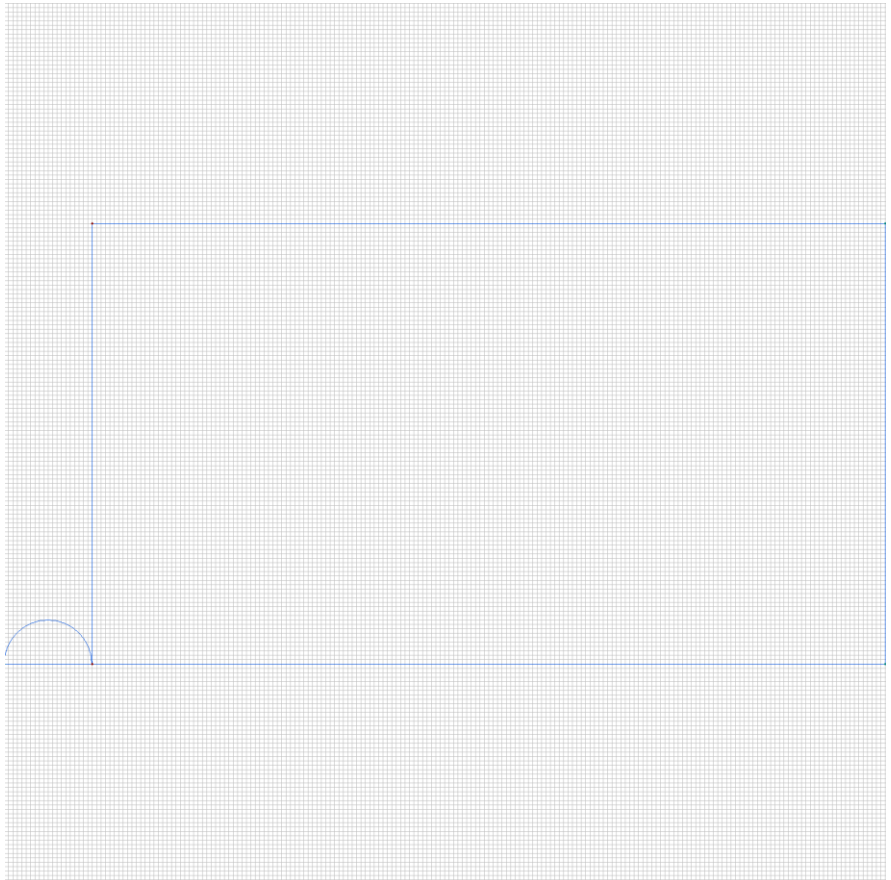
Relative electric permittivity  $\epsilon_{x=1}$ ,  $\epsilon_{y=1}$



Labelled objects: vertex "p1"

There are (2) objects with this label

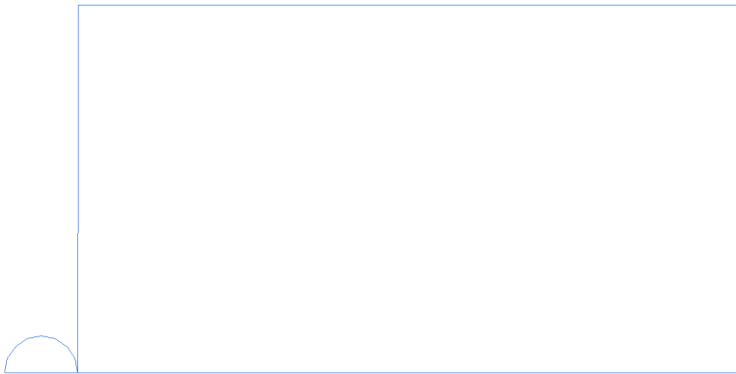
Voltage  $U=0$  [V]





# Results

Field lines





# Results

Color map of Electric induction  $|D|$  [C/m<sup>2</sup>]



# Nonlinear dependencies

No non-linear dependencies are used in this problem data