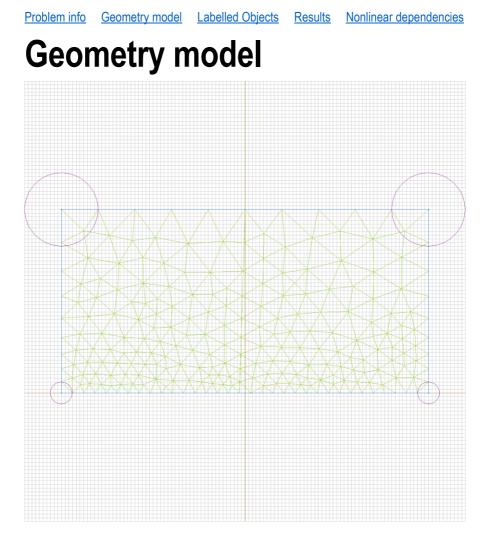
## **Problem info**

Problem type: Electrostatics Geometry model class: Axisymmetric Problem database file names:

- Problem: *ES\_Axial.pbm*
- Geometry: *Es\_axial.mod*
- Material Data: *Es\_axial.des*
- Material Data 2 (library): none
- Electric circuit: none

Results taken from other problems:

• none



Problem info Geometry model Labelled Objects Results Nonlinear dependencies

Table 1. Geometry model statistics

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

Number of nodes: 240.

# Labelled objects

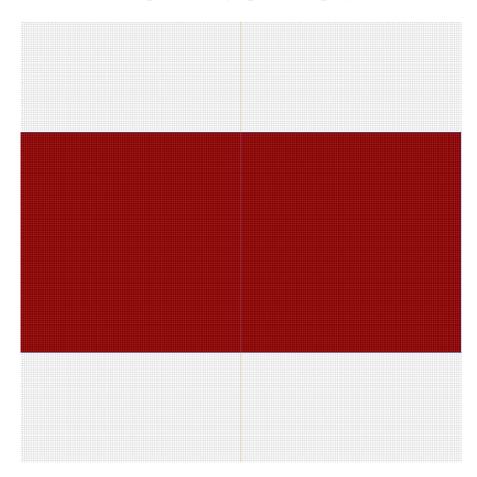
There are following labelled objects in the geometry model (Material Data file could contain more labels, but only those labels that assigned to geometric objects are listed)

Blocks:	Edges:	Vertices:
• <u>vacuum</u> •	• <u>U+</u> • <u>U=0</u> •	

Detailed information about each label is listed below.

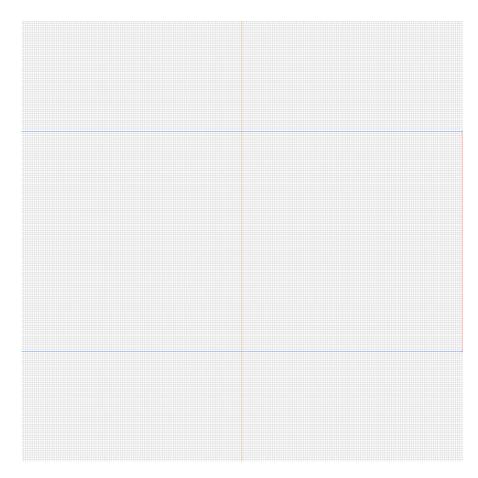
#### Labelled objects: block "vacuum" There are (1) objects with this label

Relative electric permittivity eps\_x=1, eps\_y=1



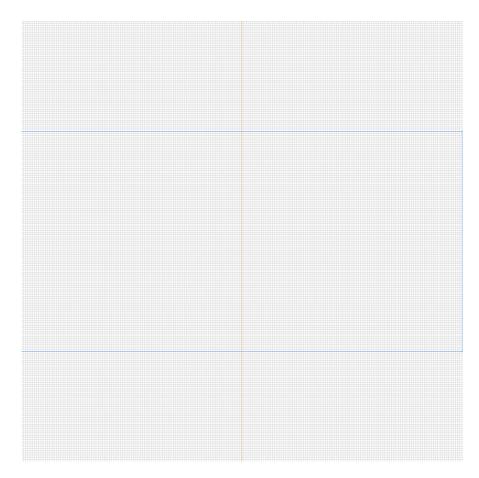
#### Labelled objects: edge "U+" There are (1) objects with this label

Voltage U=20 [V]



#### Labelled objects: edge "U=0" There are (1) objects with this label

Voltage U=0 [V]

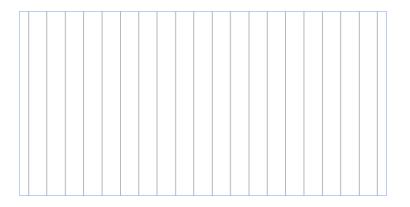


Problem info Geometry model Labelled Objects Results Nonlinear dependencies

Problem info Geometry model Labelled Objects Results Nonlinear dependencies

### **Results**

Field lines



### **Results**

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

0.0000000 00179
0.0000000 001787
0.0000000 001784
0.0000000 001781
0.0000000 001778
0.0000000 001775
0.0000000 001772
0.0000000 001769
0.0000000 001766
0.0000000 001763
0.0000000 00176

## Nonlinear dependencies

No non-linear dependencies are used in this problem data