# Problem info

Problem type: AC Conduction , frequency: 50 Hz,
Geometry model class: Axisymmetric
Problem database file names:

- Problem: *resistive_limiter.pbm*
- Geometry: *Resistive_limiter.mod*
- Material Data: *Resistive_limiter.dec*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

# Geometry model

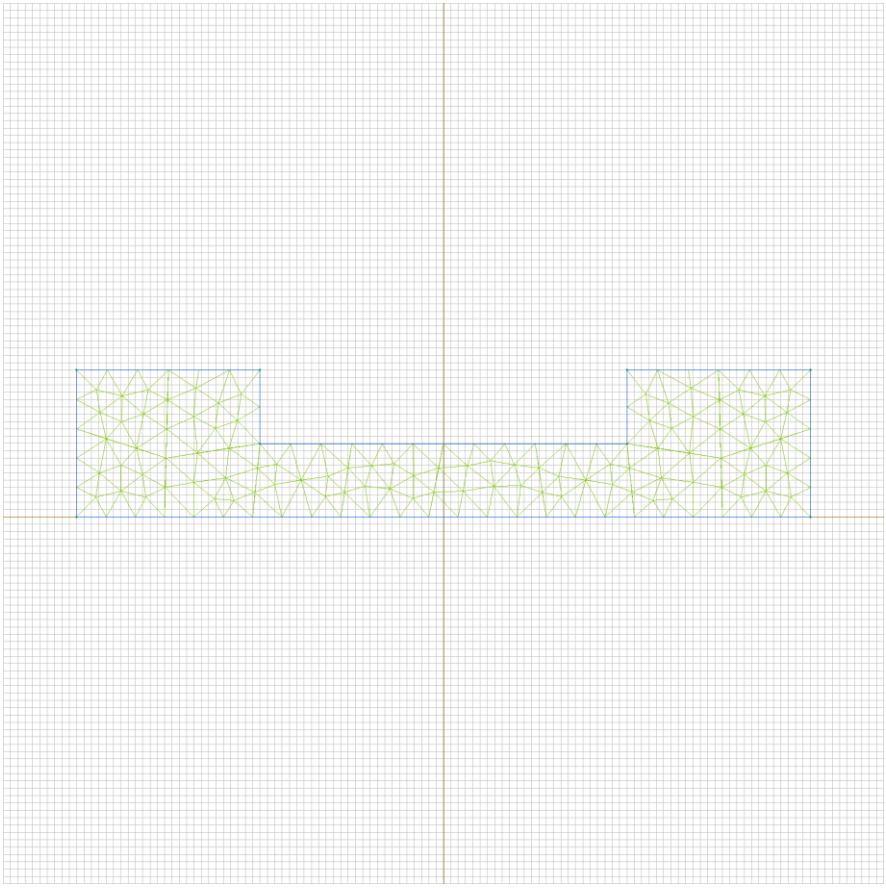


Table 1. Geometry model statistics

| | With Label | Total |
|---|---|---|
| Blocks | 1 | 1 |
| Edges | 3 | 8 |
| Vertices | 0 | 8 |

Number of nodes: 155.

# 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)

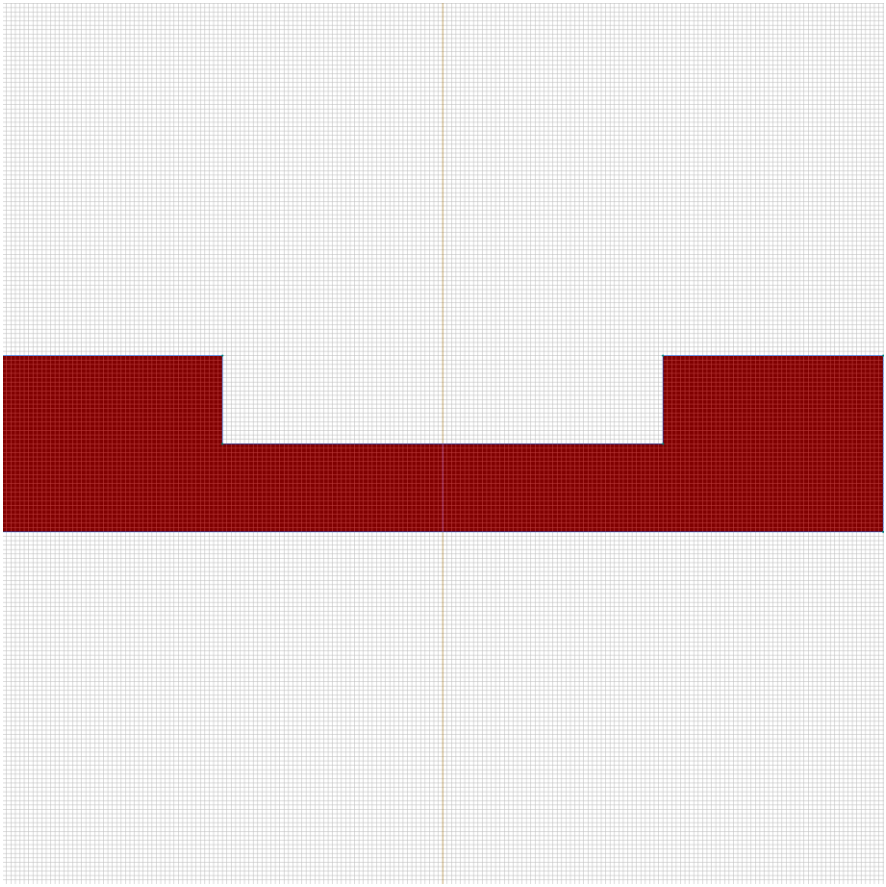
| Blocks: | Edges: | Vertices: |
|---|---|---|
| • bscco<br>• | • zero_Jn<br>• v_minus<br>• v_plus<br>• | |

Detailed information about each label is listed below.

## Labelled objects: block "bscco"

There are (1) objects with this label

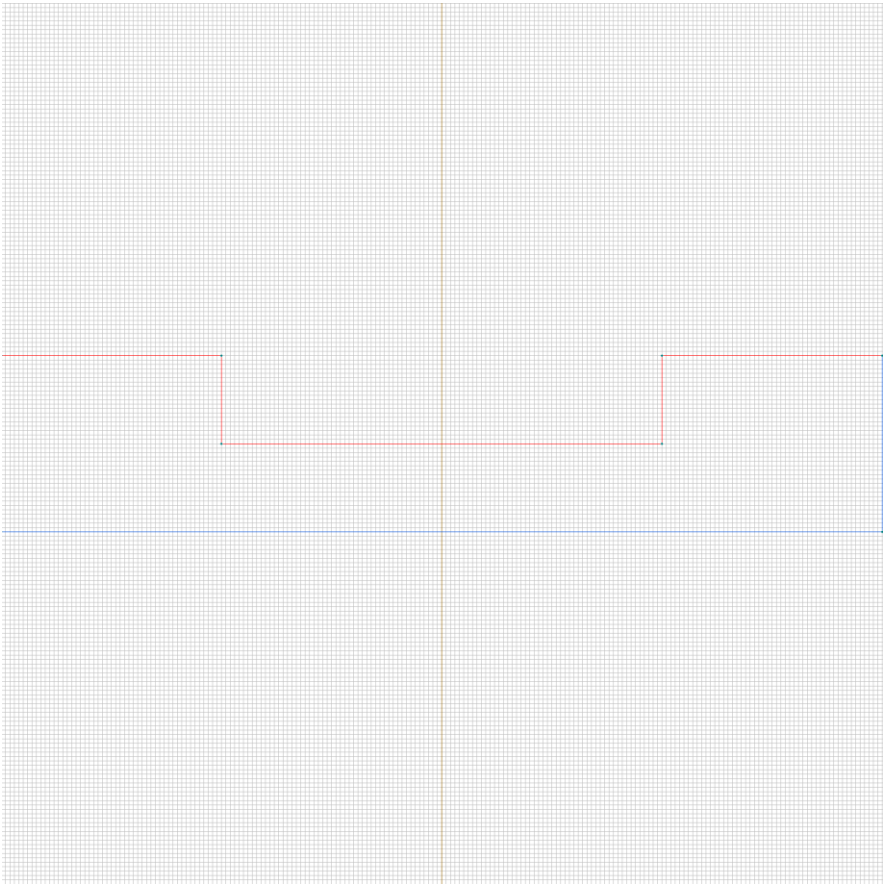
Relative electric permittivity eps_x=1, eps_y=1
Electrical conductivity sigma_x=100 [S/m], sigma_y=100 [S/m]



# Labelled objects: edge "zero_Jn"

There are (5) objects with this label

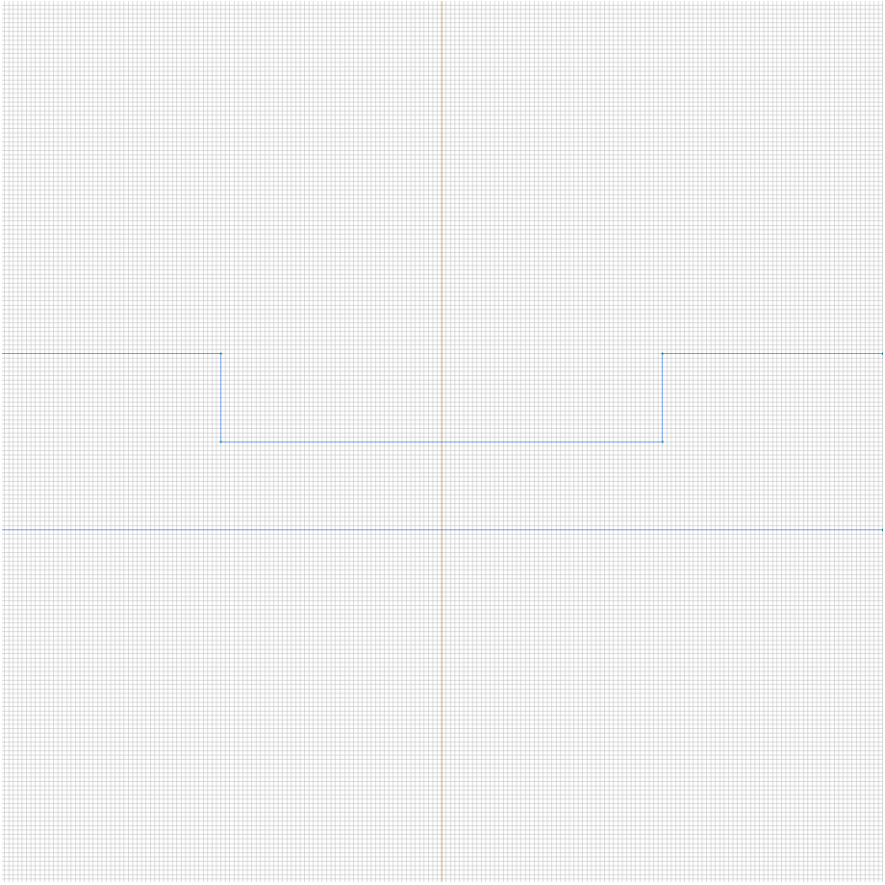
Normal current density: jn=0 [A/m2], phase 0 [deg]



# Labelled objects: edge "v_minus"

There are (1) objects with this label

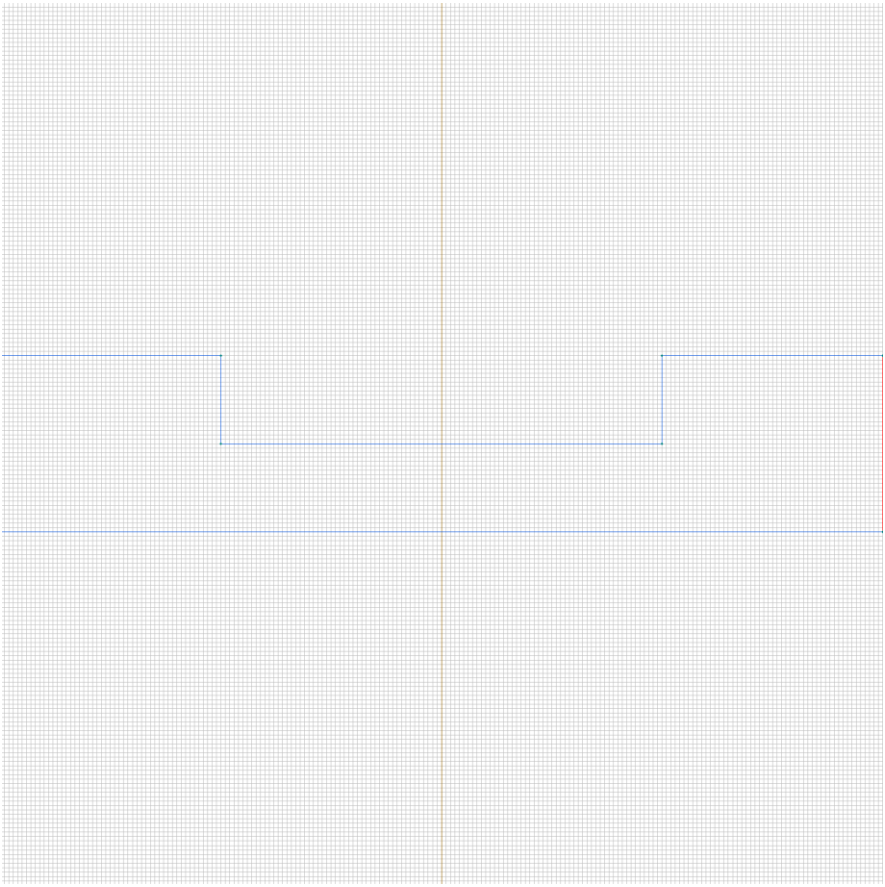
Voltage: U=0 [V], phase 0 [deg]



# Labelled objects: edge "v_plus"

There are (1) objects with this label

Voltage: U=1 [V], phase 0 [deg]

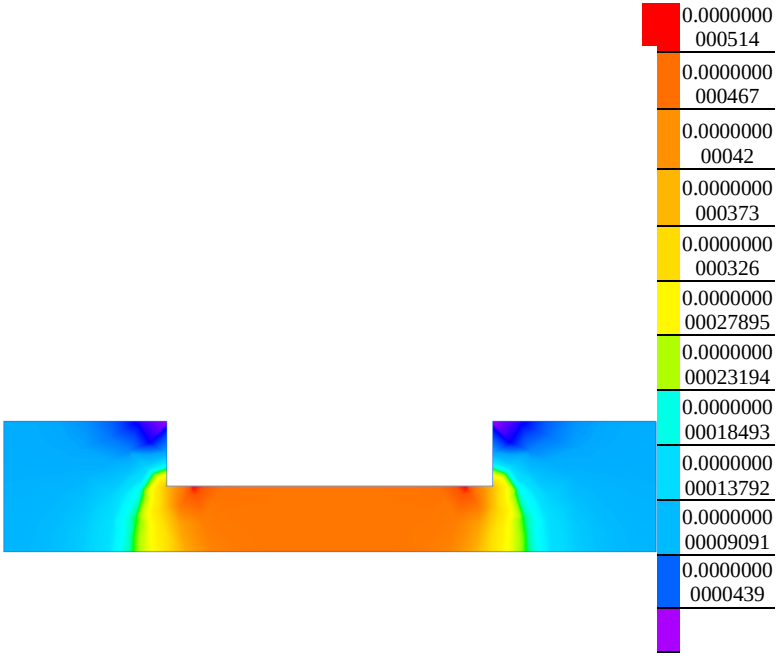


# Results

Field lines

# Results

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



# Nonlinear dependencies

No non-linear dependencies are used in this problem data