Problem info

Problem type: DC Conduction
Geometry model class: Plane-Parallel
Problem database file names:

- Problem: *groud.pbm*
- Geometry: *Groud.mod*
- Material Data: *Groud.dcf*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

Geometry model

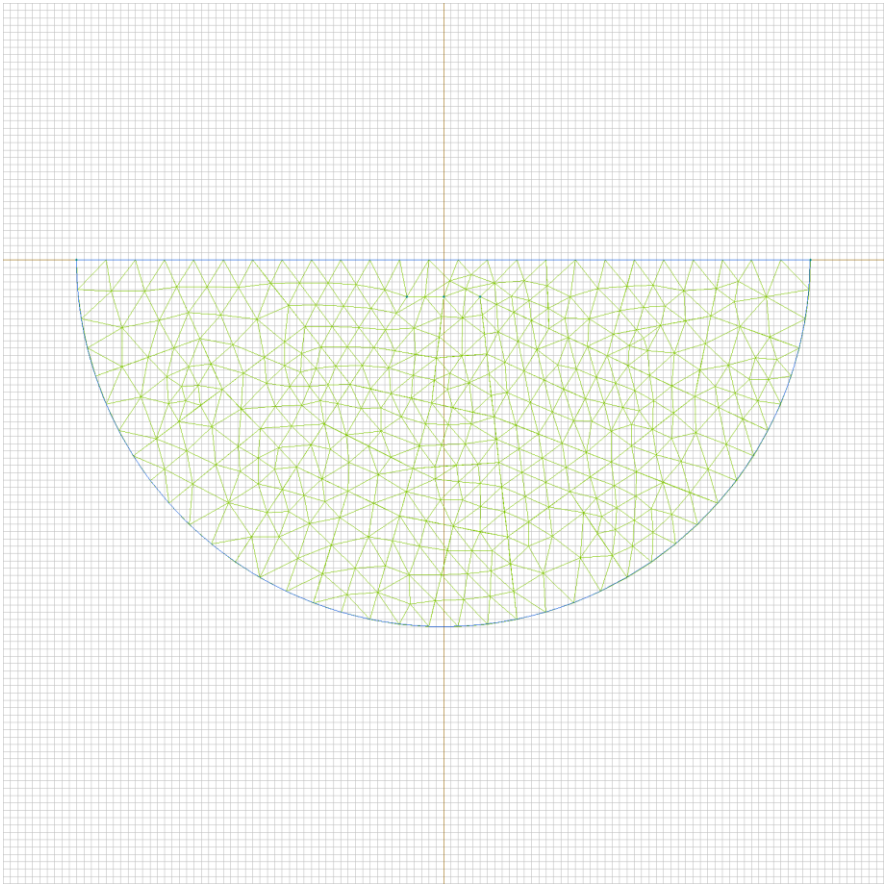


Table 1. Geometry model statistics

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

Number of nodes: 371.

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)

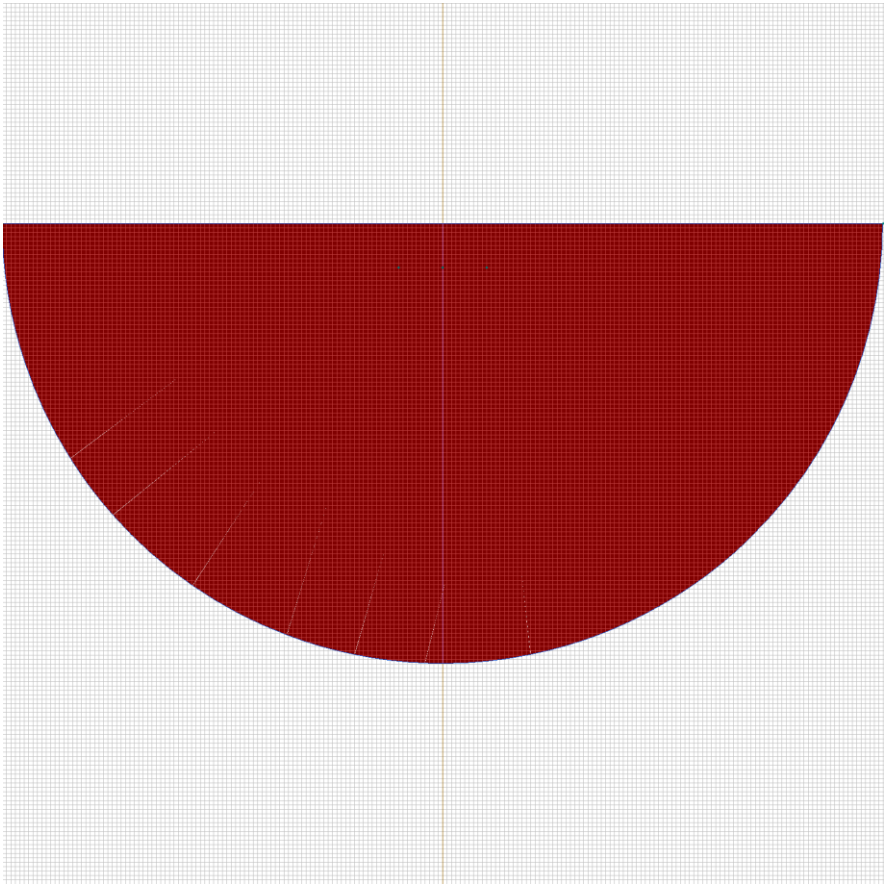
Blocks:	Edges:	Vertices:
• ground •	• outer boundary •	• rodes •

Detailed information about each label is listed below.

Labelled objects: block "ground"

There are (1) objects with this label

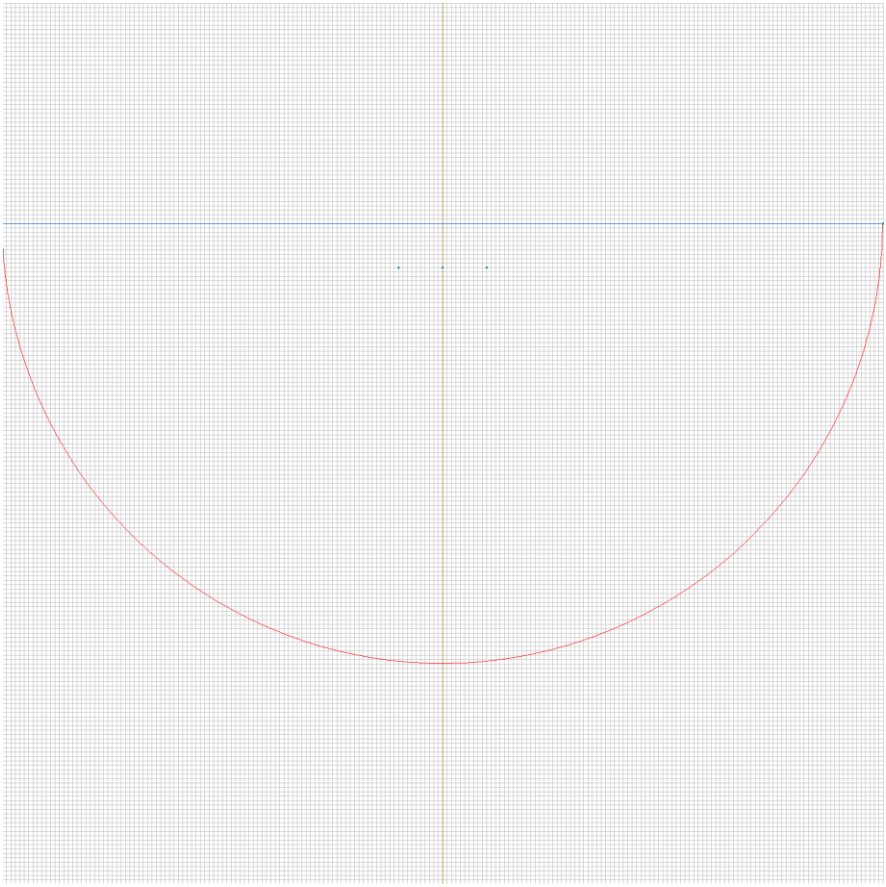
Electrical conductivity: sigma_x=0.1 S/m, sigma_y=0.1 S/m
Reference temperature: T=0 K



Labelled objects: edge "outer boundary"

There are (1) objects with this label

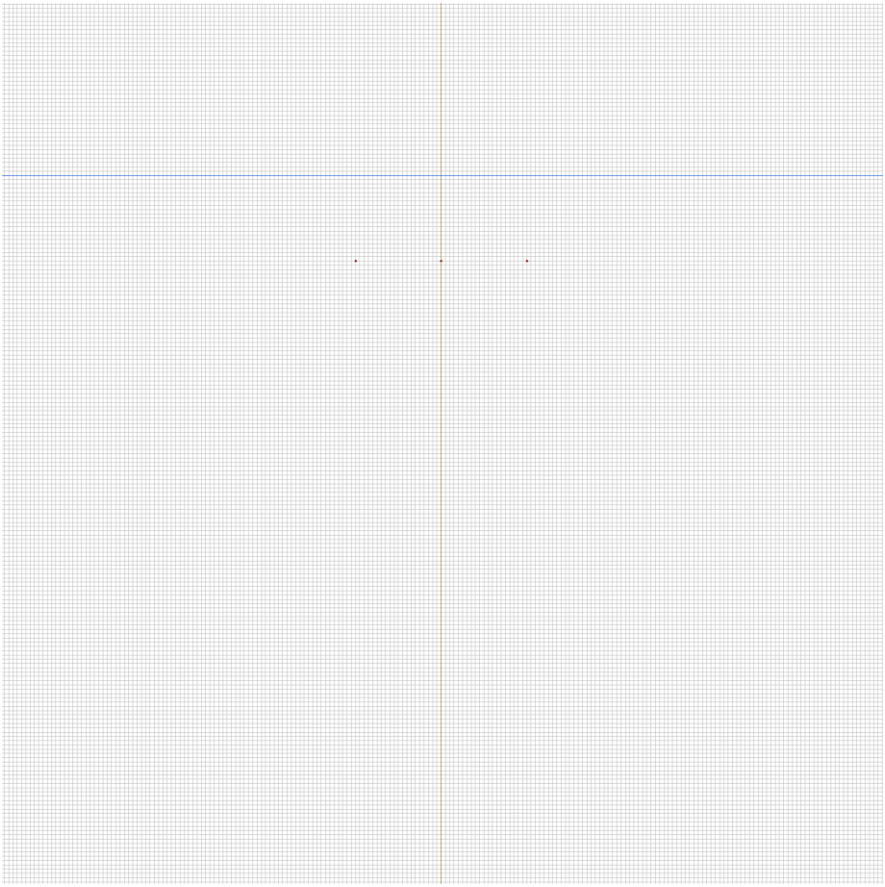
Voltage: U=0 V



Labelled objects: vertex "rodes"

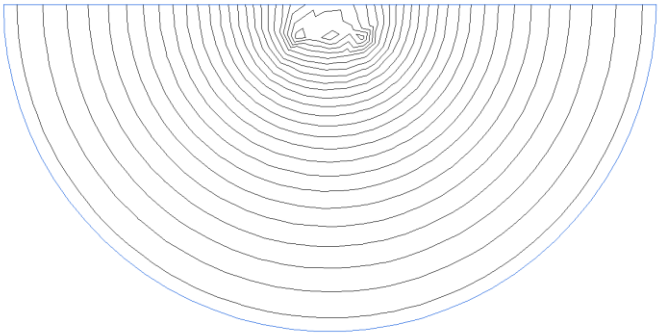
There are (3) objects with this label

Voltage: U=250 V



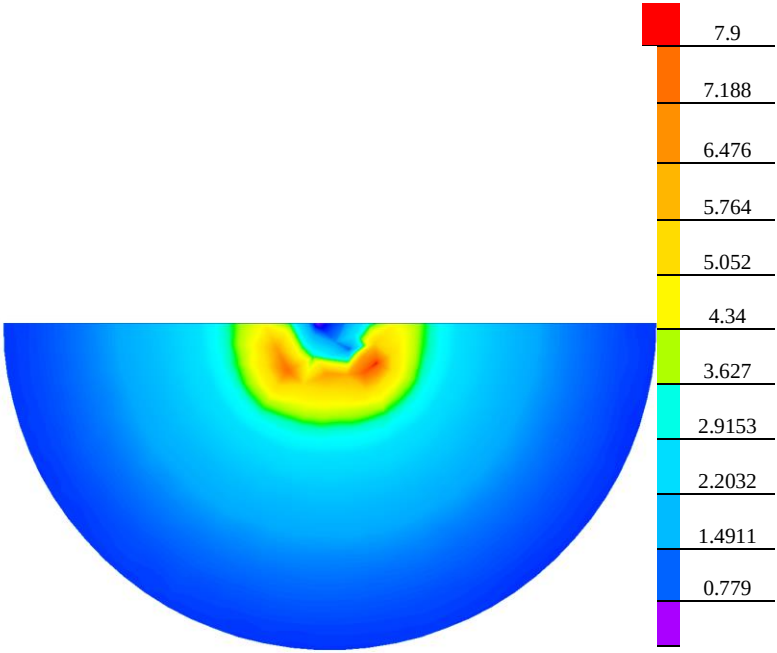
Results

Field lines



Results

Color map of Current density |j| [A/m2]



Nonlinear dependencies

No non-linear dependencies are used in this problem data