Problem info

Problem type: AC Conduction , frequency: 0 Hz,
Geometry model class: Plane-Parallel
Problem database file names:

- Problem: *ELETTRICO AC .pbm*
- Geometry: *Elettrico ac .mod*
- Material Data: *Elettrico ac .dec*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

Geometry model

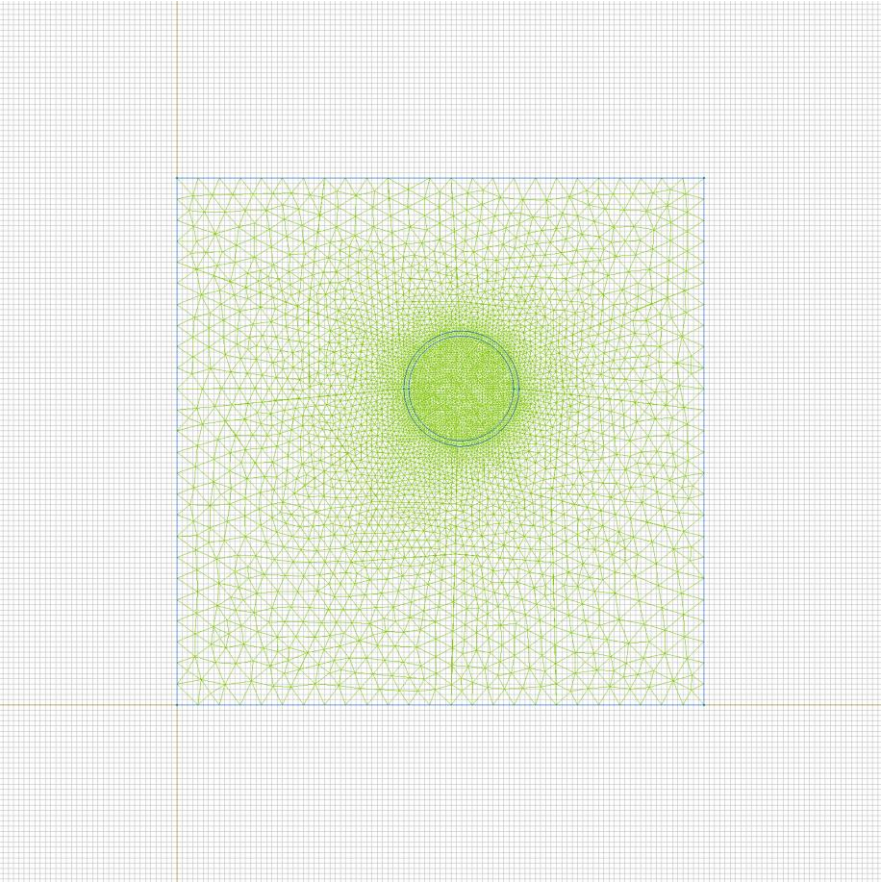


Table 1. Geometry model statistics

	With Label	Total
Blocks	3	3
Edges	2	8
Vertices	0	8

Number of nodes: 4798.

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)

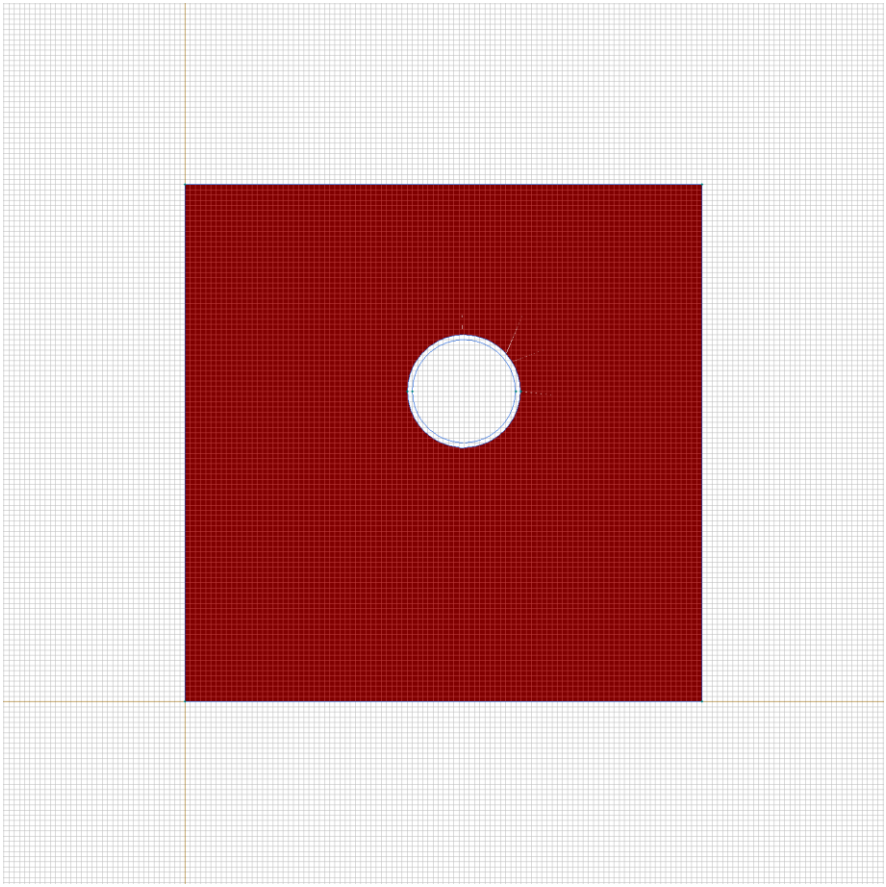
Blocks:	Edges:	Vertices:
• Olio • Carta • Rame •	• massa • limite 1 •	

Detailed information about each label is listed below.

Labelled objects: block "Olio"

There are (1) objects with this label

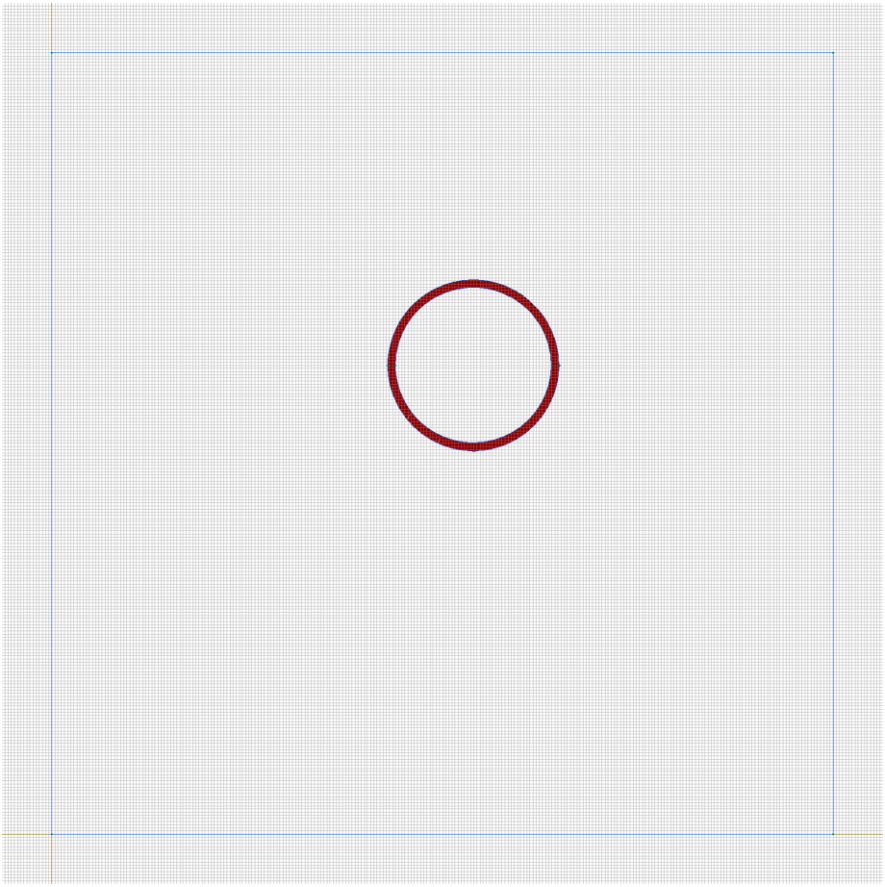
Relative electric permittivity eps_x=2.2, eps_y=2.2
Electrical conductivity sigma_x=0 [S/m], sigma_y=0 [S/m]



Labelled objects: block "Carta"

There are (1) objects with this label

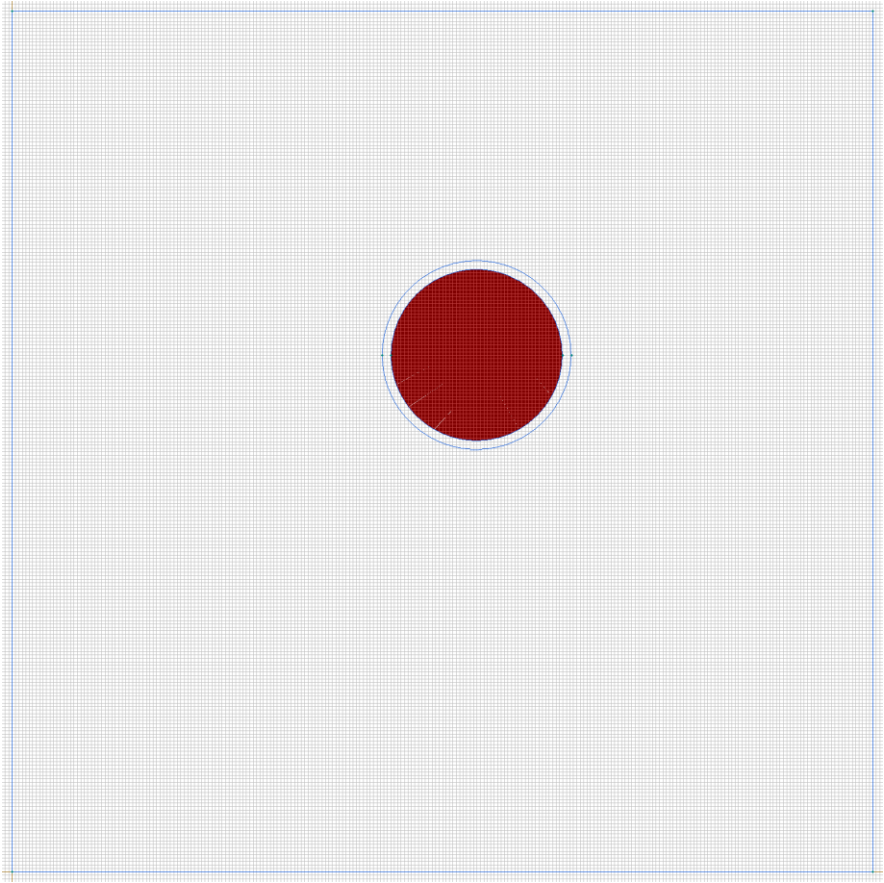
Relative electric permittivity eps_x=3.6, eps_y=3.6
Electrical conductivity sigma_x=0 [S/m], sigma_y=0 [S/m]



Labelled objects: block "Rame"

There are (1) objects with this label

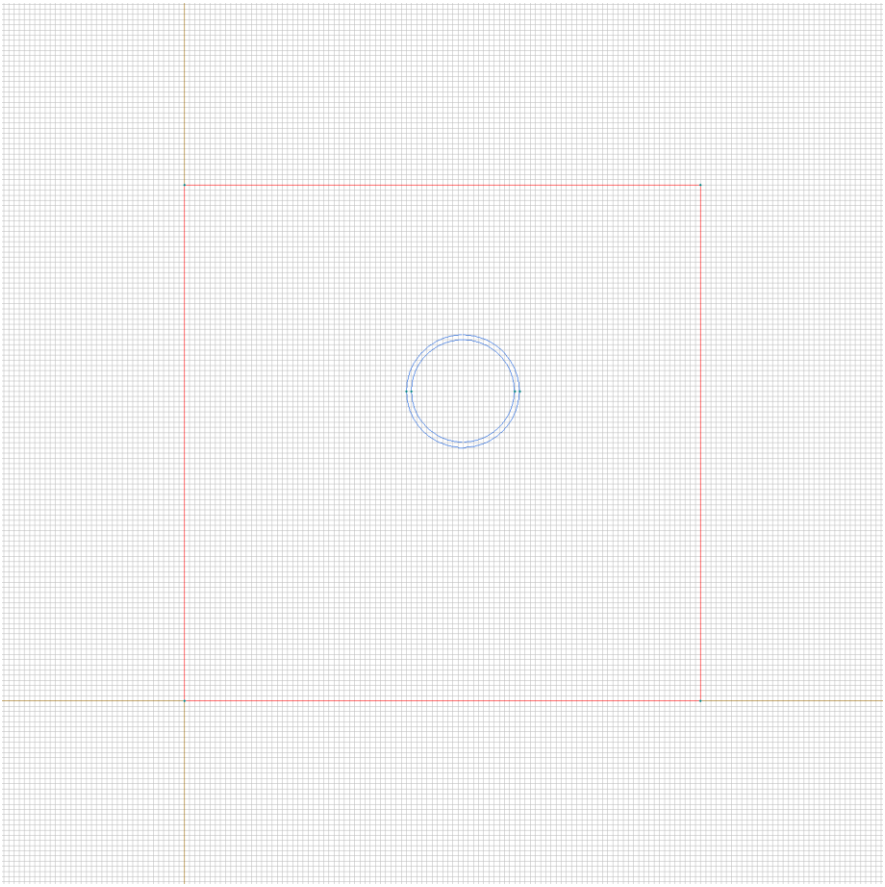
Relative electric permittivity eps_x=0, eps_y=0
Electrical conductivity sigma_x=0 [S/m], sigma_y=0 [S/m]



Labelled objects: edge "massa"

There are (4) objects with this label

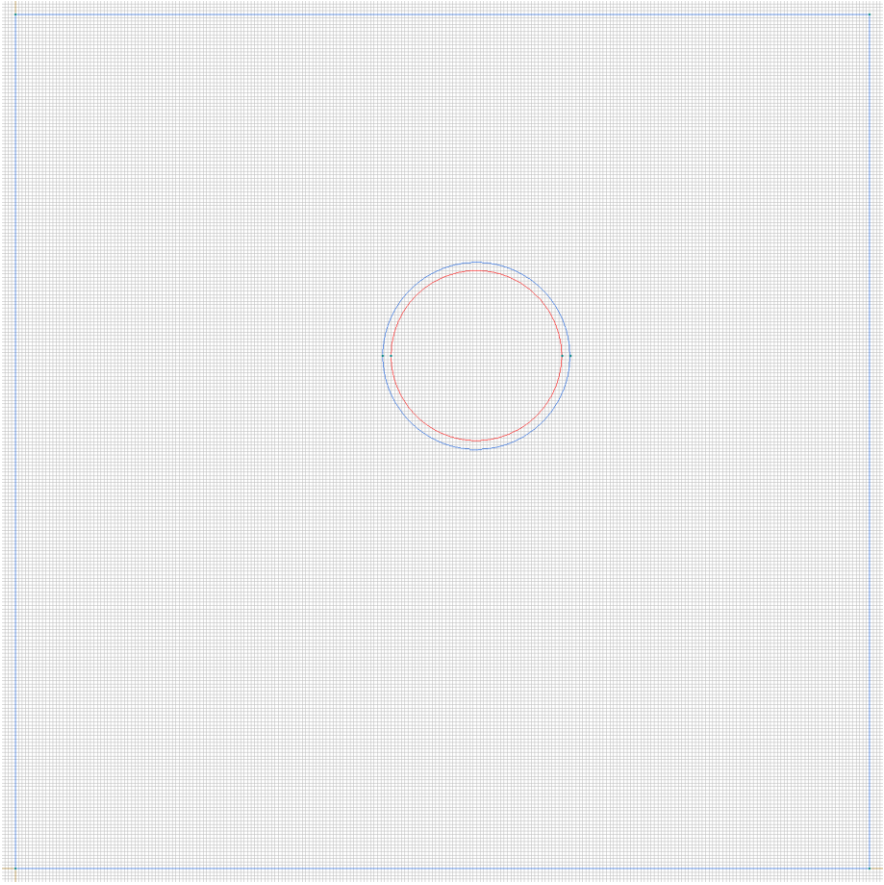
Voltage: U=0 [V], phase 0 [deg]



Labelled objects: edge "limite 1"

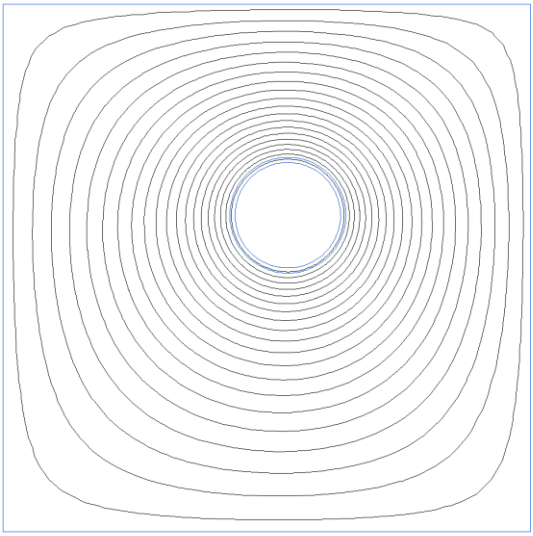
There are (2) objects with this label

Voltage: U=100000 [V], phase 0 [deg]



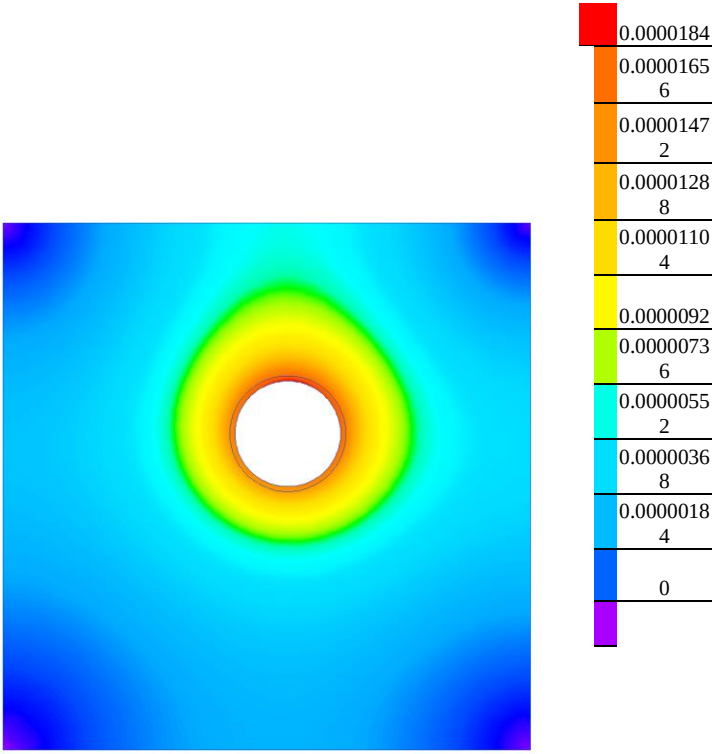
Results

Field lines



Results

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



Nonlinear dependencies

No non-linear dependencies are used in this problem data