

Problem info

Problem type: Transient Magnetics (integration time: 1.49999996210681E-05 s.)

Geometry model class: Plane-Parallel

Problem database file names:

- Problem: *TEMagn2.pbm*
- Geometry: *Temagn2.mod*
- Material Data: *Temagn2.dms*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

Geometry model

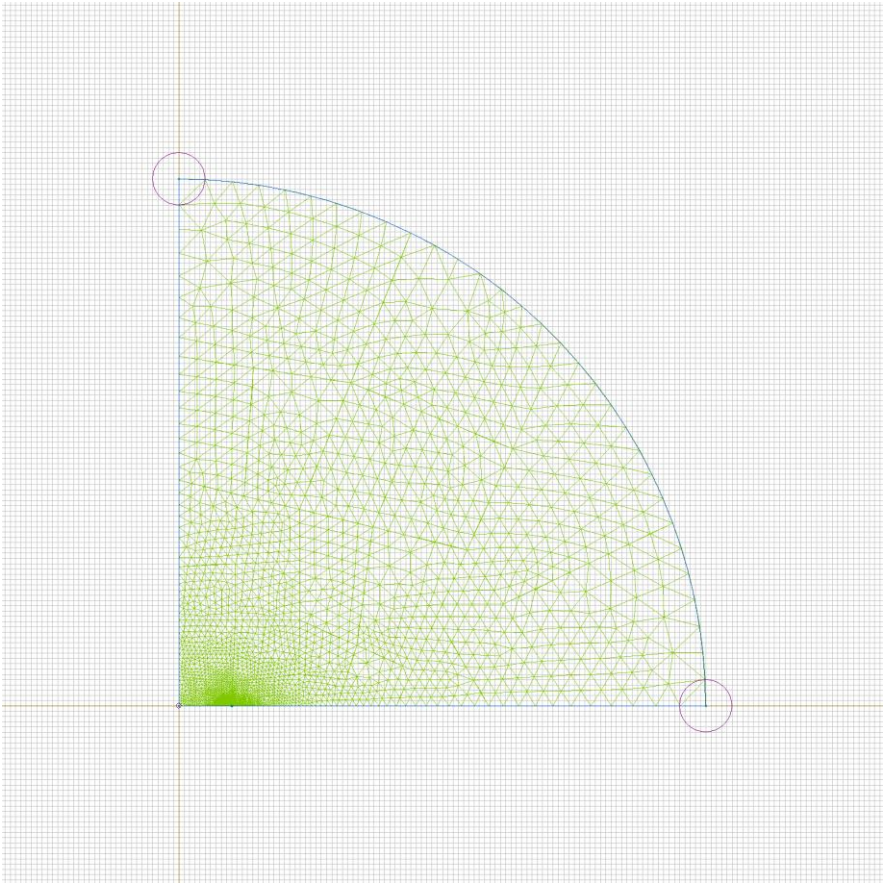


Table 1. Geometry model statistics

	With Label	Total
Blocks	2	2
Edges	3	6
Vertices	0	5

Number of nodes: 4959.

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:

- [air](#)
- [copper](#)
-

Edges:

- [a0](#)
- [symmetry](#)
- [far away](#)
-

Vertices:

Detailed information about each label is listed below.

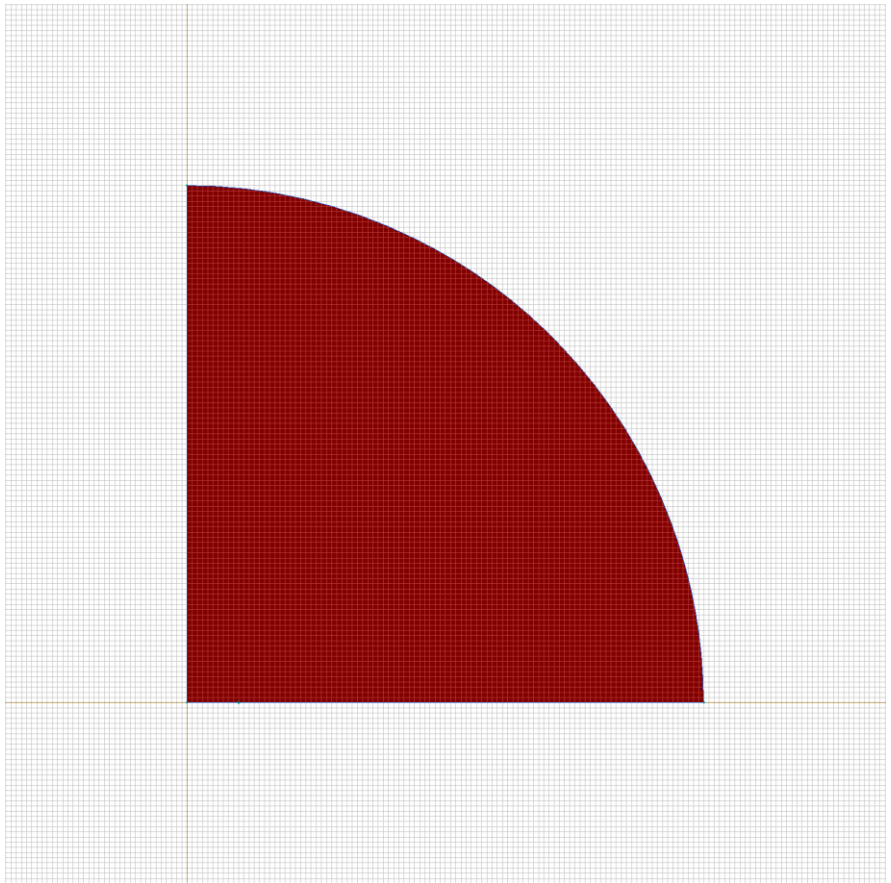
Labelled objects: block "air"

There are (1) objects with this label

Relative magnetic permeability: $\mu_x=1$, $\mu_y=1$

Current density: $j=0$ [A/m²]

Conductor's connection: in parallel



Labelled objects: block "copper"

There are (1) objects with this label

Relative magnetic permeability: $\mu_x=1$, $\mu_y=1$

Electric conductivity: $\sigma(T)=56000000$ [S/m]

Voltage: $U=0.001$ [V]

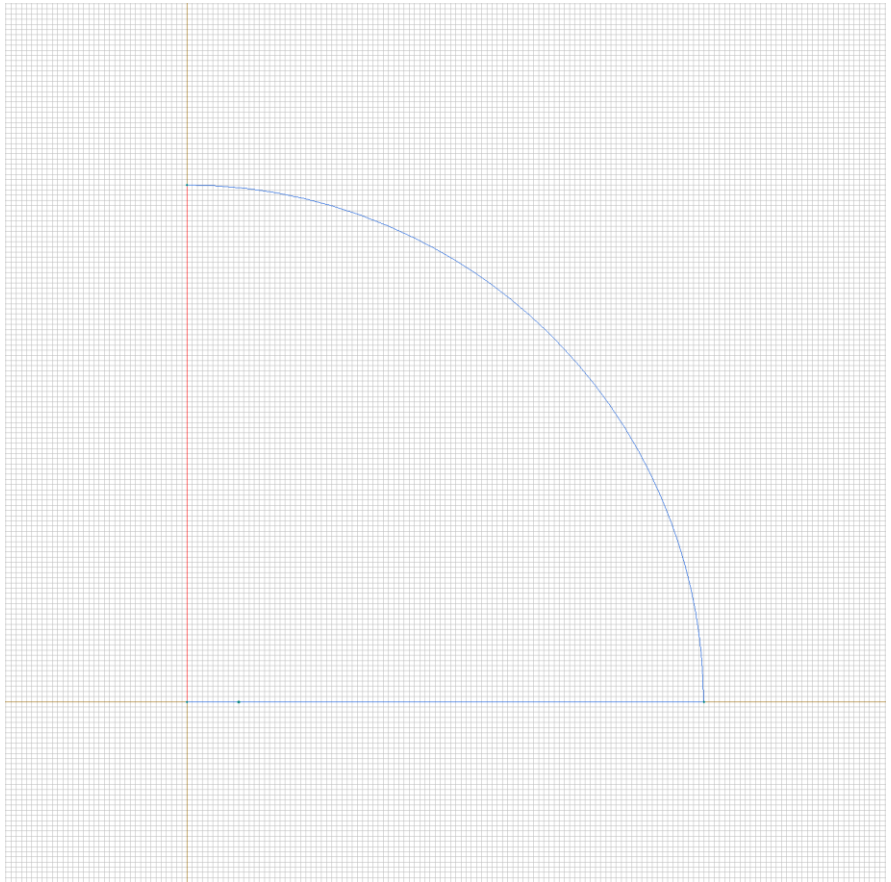
Conductor's connection: in parallel



Labelled objects: edge "a0"

There are (1) objects with this label

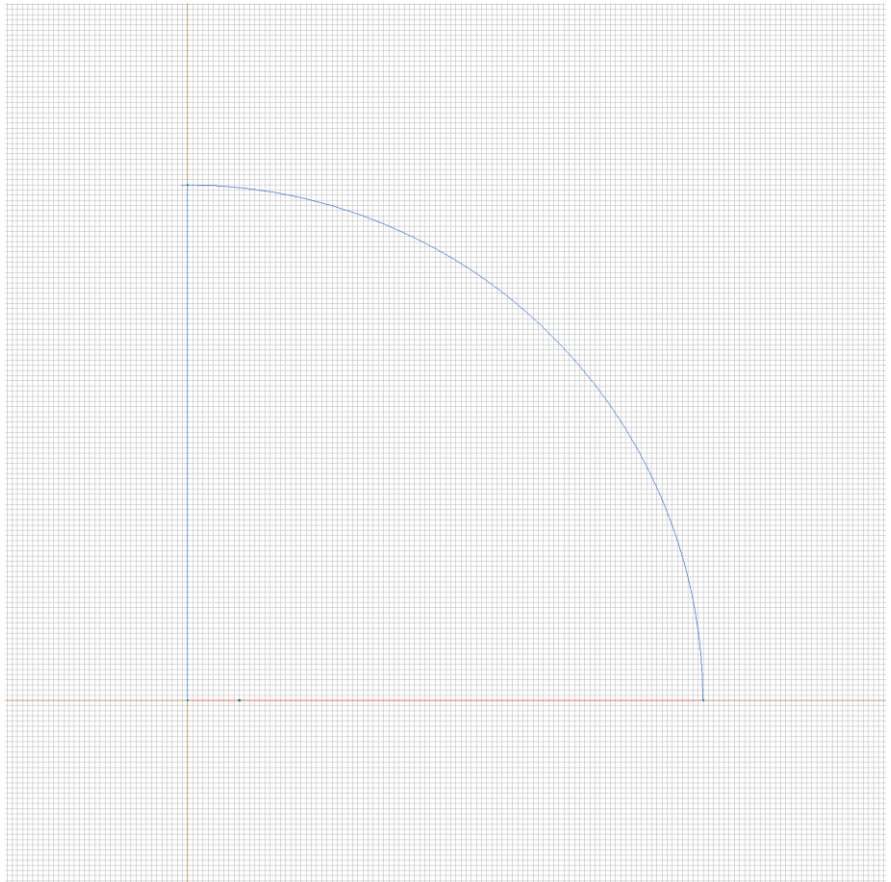
Magnetic potential: $A=0$ [Wb/m]



Labelled objects: edge "symmetry"

There are (3) objects with this label

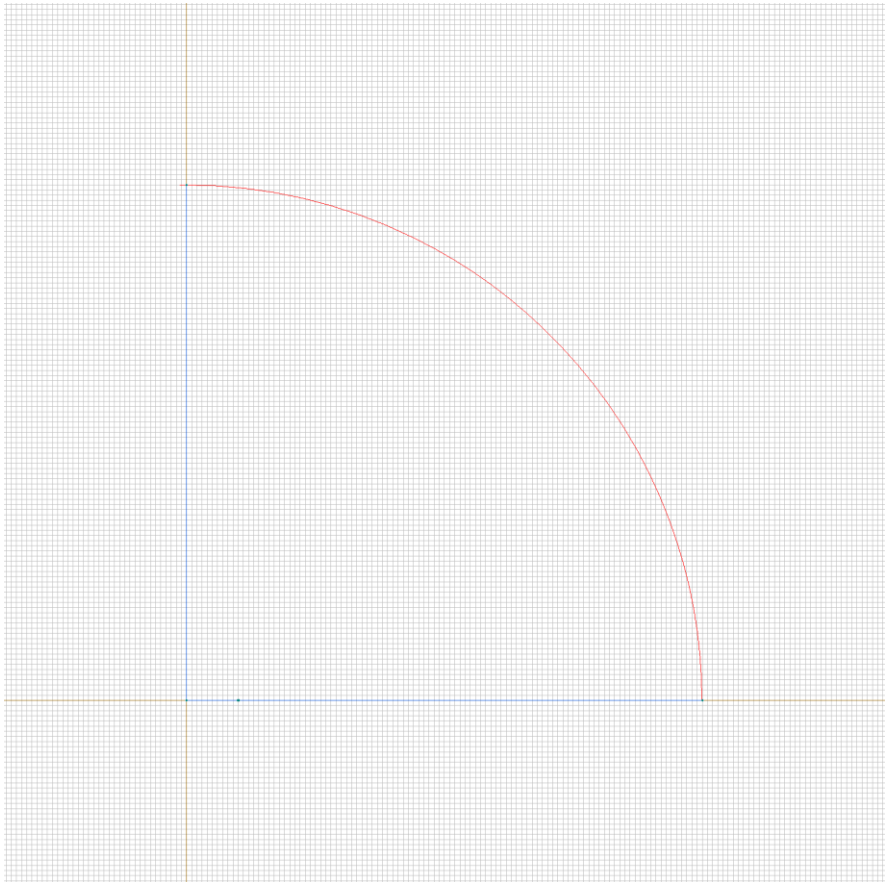
Tangential field: $H_{t=0}$ [A/m]



Labelled objects: edge "far away"

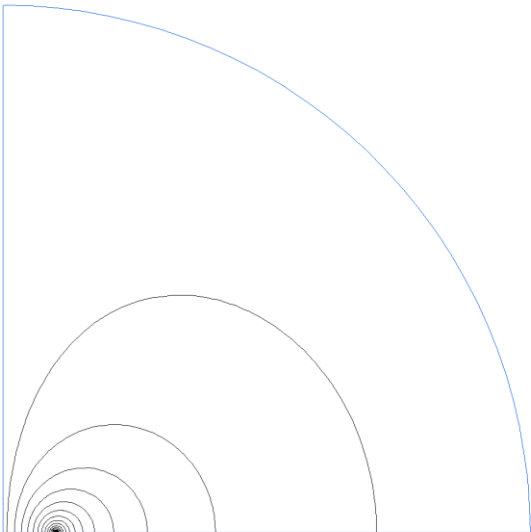
There are (1) objects with this label

Magnetic potential: $A=0$ [Wb/m]



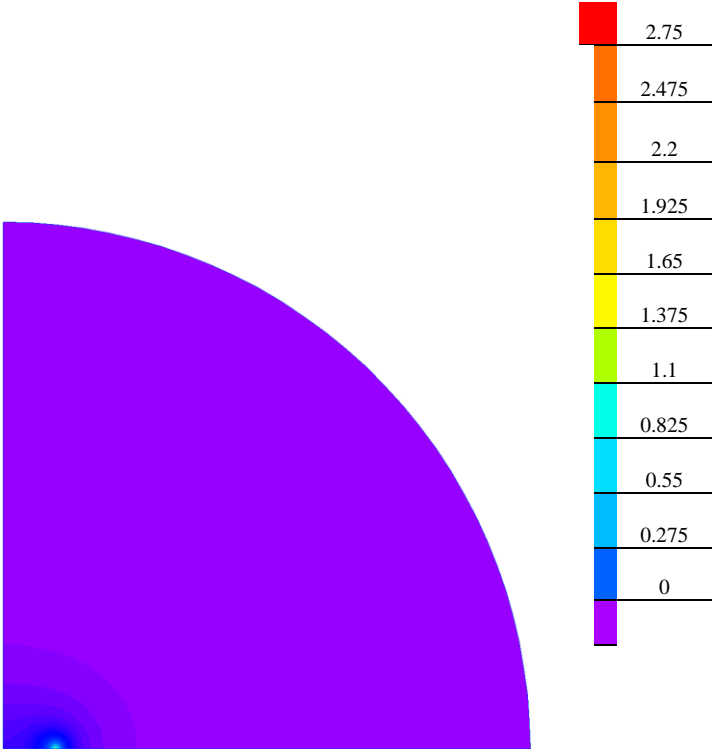
Results

Field lines



Results

Color map of Strength $|H|$ [A/m]



Nonlinear dependencies

No non-linear dependencies are used in this problem data