Problem info

Problem type: AC Magnetics , frequency: 1000000 Hz,
Geometry model class: Plane-Parallel
Problem database file names:

- Problem: *Double-wire.pbm*
- Geometry: *Double-wire.mod*
- Material Data: *Double-wire.dhe*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

Geometry model

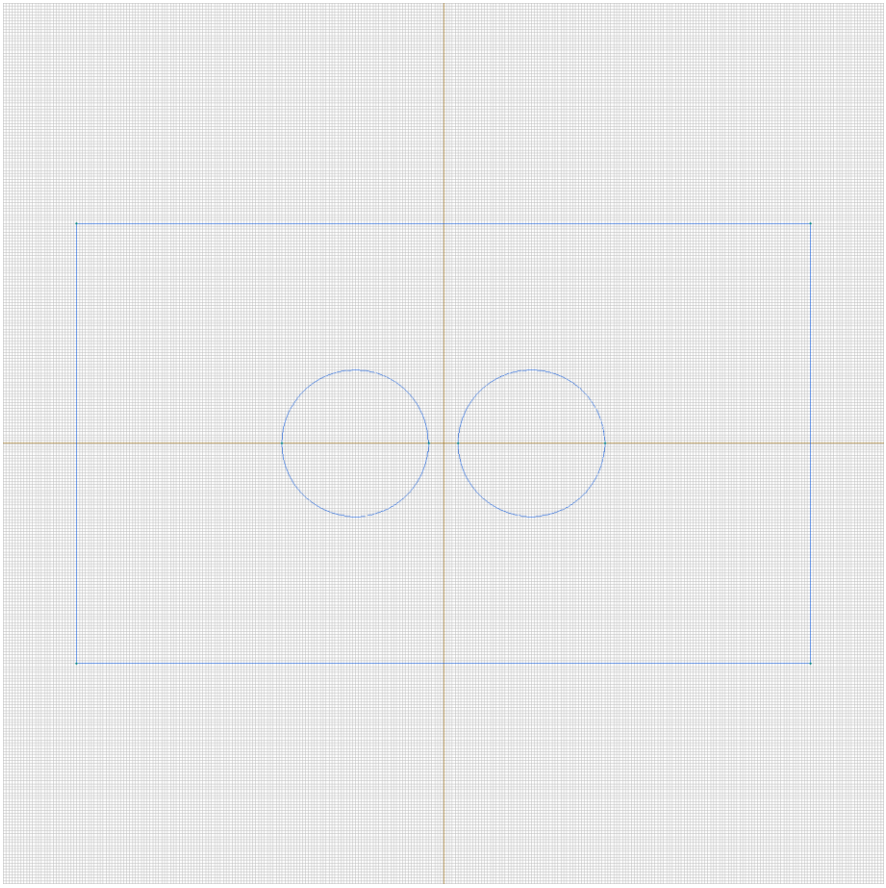


Table 1. Geometry model statistics

	With Label	Total
Blocks	2	3
Edges	1	8
Vertices	0	8

Number of nodes: 52843.

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)

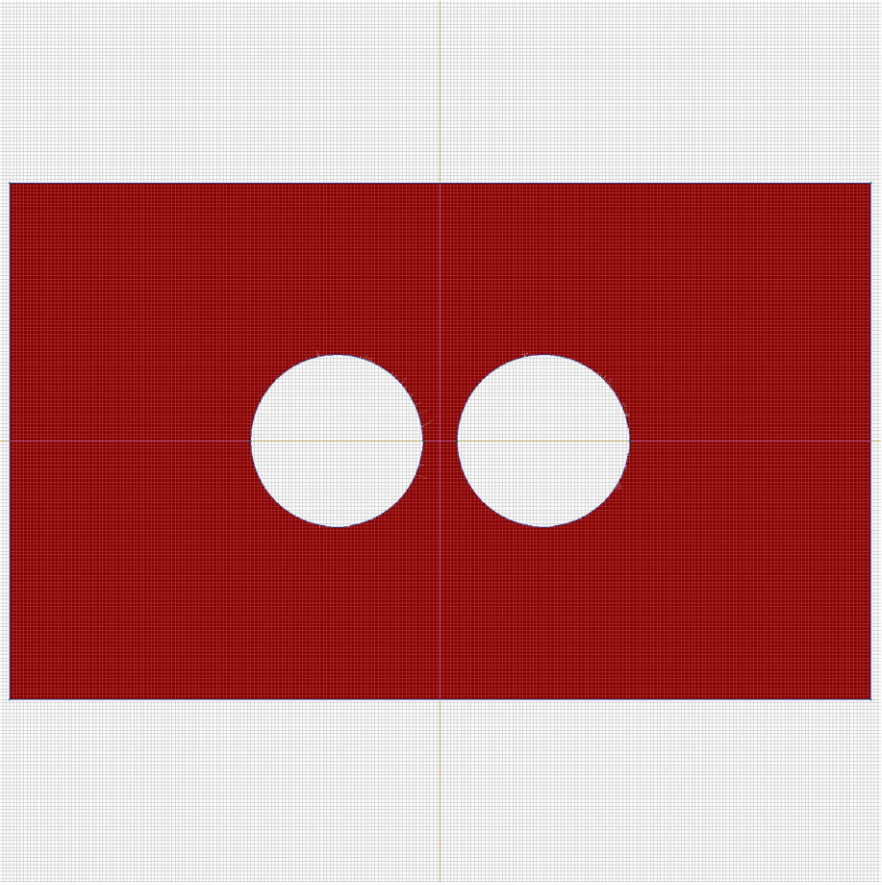
Blocks:	Edges:	Vertices:
• Air • Wire1 •	• border •	

Detailed information about each label is listed below.

Labelled objects: block "Air"

There are (1) objects with this label

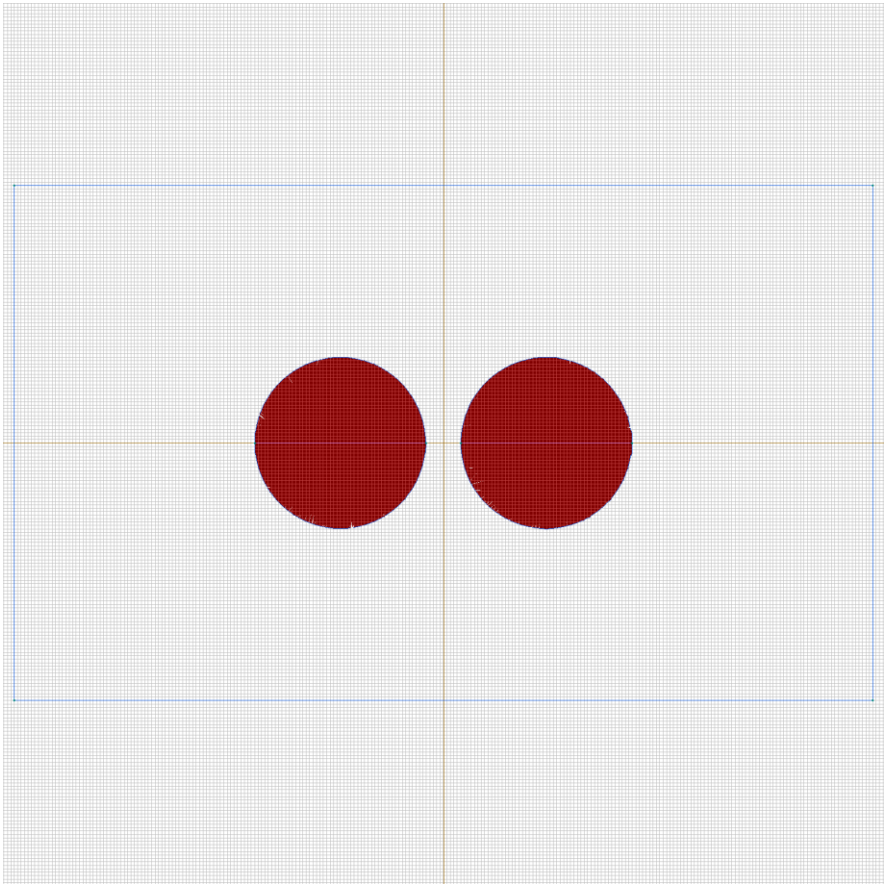
Relative magnetic permeability: mu_x=1, mu_y=1
Electric conductivity: sigma=0 [S/m]
Current density: j=0 [A/m2], phase 0 [deg]
Conductor's connection: in parallel



Labelled objects: block "Wire1"

There are (2) objects with this label

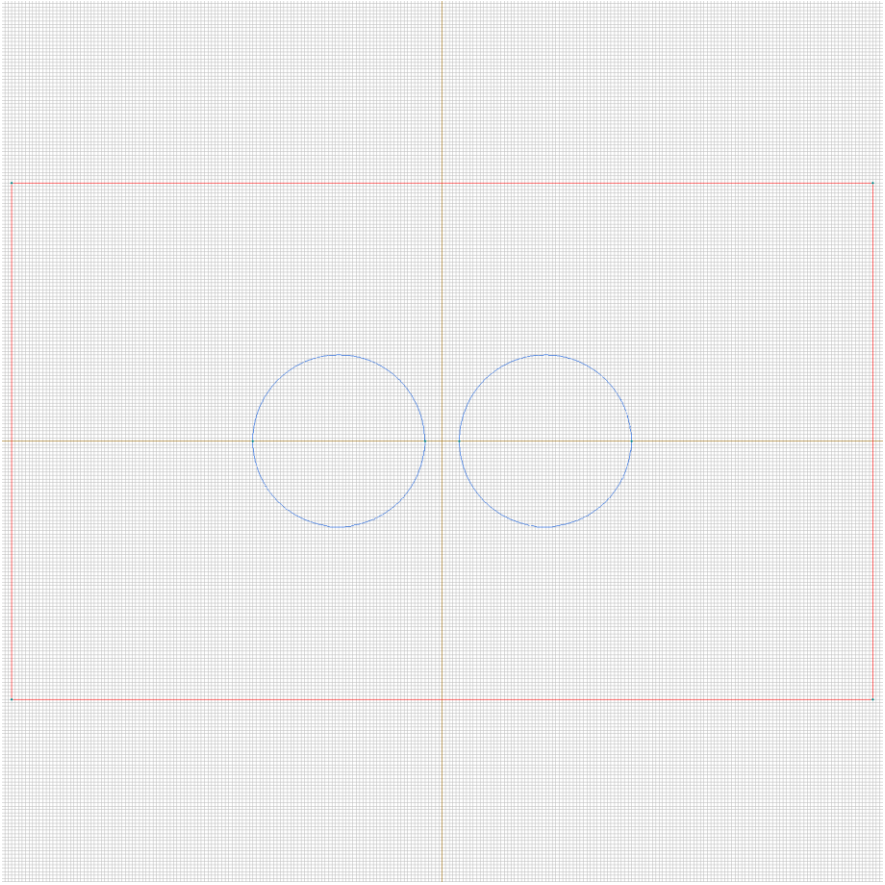
Relative magnetic permeability: mu_x=1, mu_y=1
Electric conductivity: sigma=56000000 [S/m]
Total current: I=1 [A], phase 0 [deg]
Conductor's connection: in parallel



Labelled objects: edge "border"

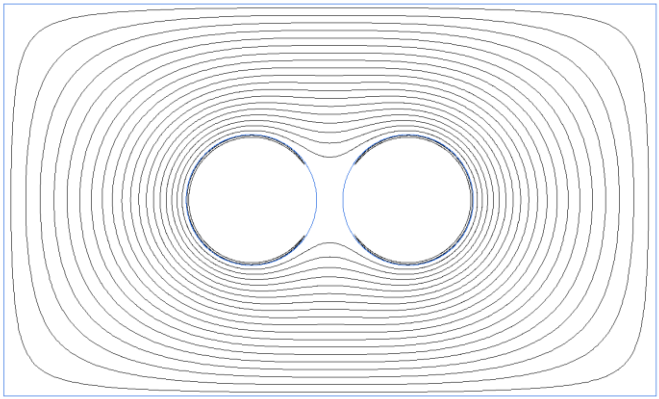
There are (4) objects with this label

Magnetic potential: A=0 [Wb/m], phase 0 [deg]



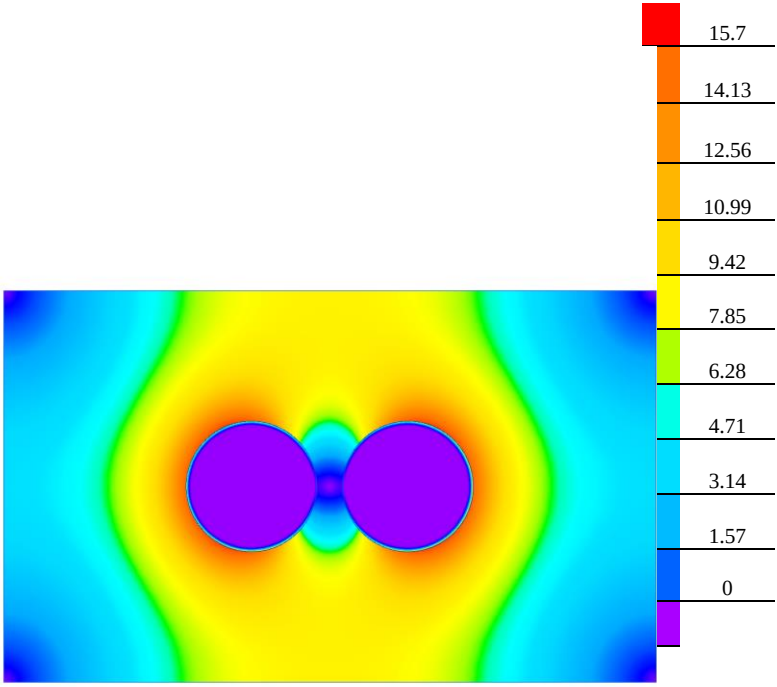
Results

Field lines



Results

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



Nonlinear dependencies

No non-linear dependencies are used in this problem data