

Problem info

Problem type: AC Magnetics , frequency: 100000000 Hz,

Geometry model class: Plane-Parallel

Problem database file names:

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

Results taken from other problems:

- *none*

Geometry model

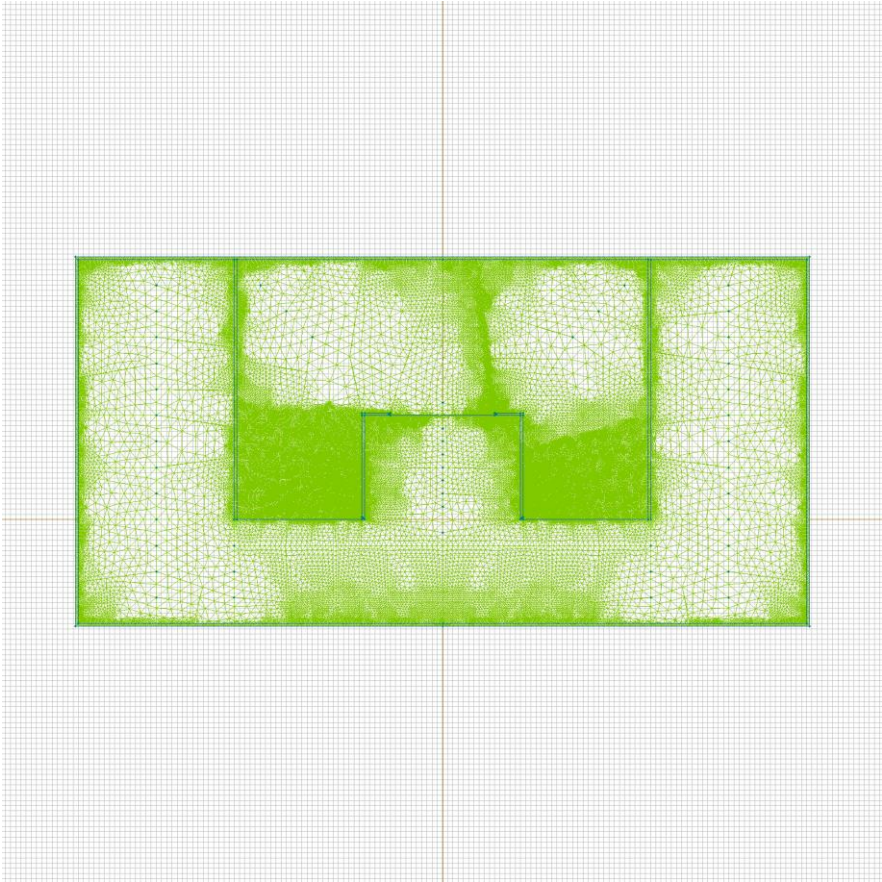


Table 1. Geometry model statistics

	With Label	Total
Blocks	5	5
Edges	0	40
Vertices	0	96

Number of nodes: 72566.

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:

- [diel](#)
- [shield](#)
- [elec1](#)
- [elec2](#)
- [air](#)
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Edges:

Vertices:

Detailed information about each label is listed below.

Labelled objects: block "die1"

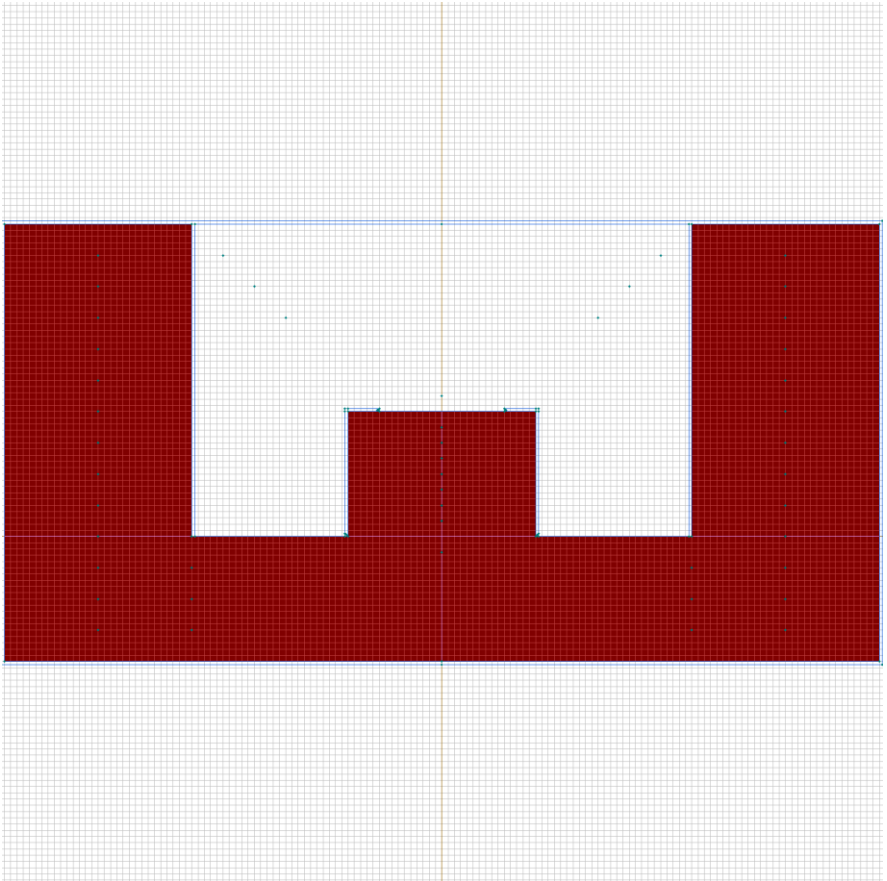
There are (1) objects with this label

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 "shield"

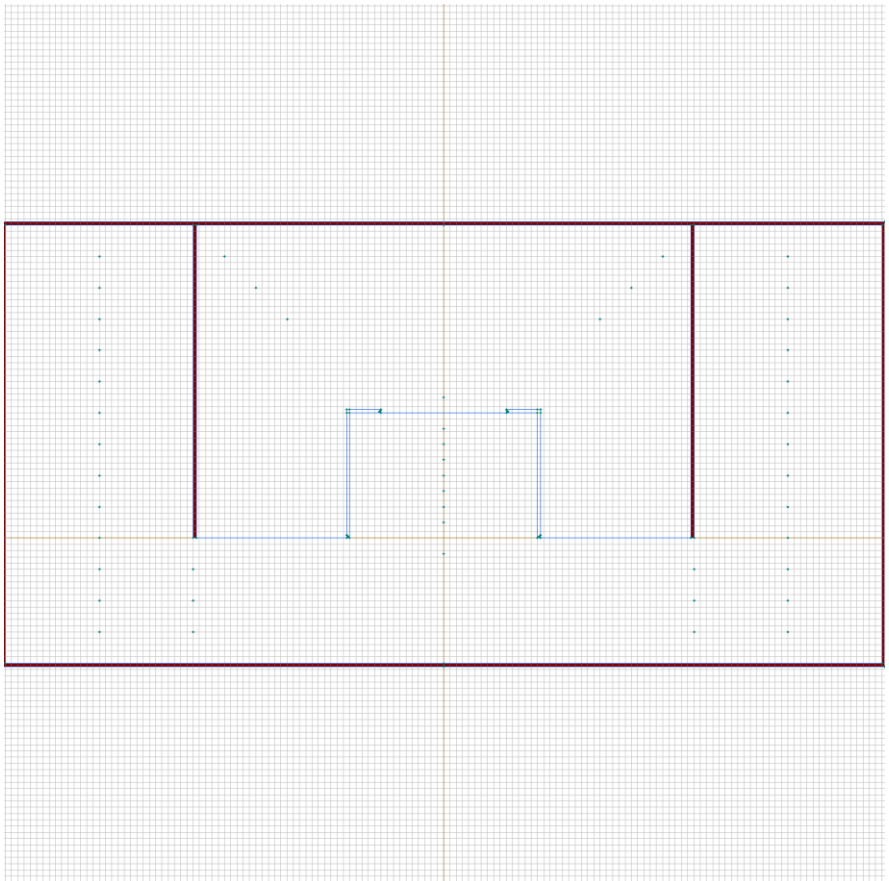
There are (1) objects with this label

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

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

Current density: $j=0$ [A/m²], phase 0 [deg]

Conductor's connection: in parallel



Labelled objects: block "elec1"

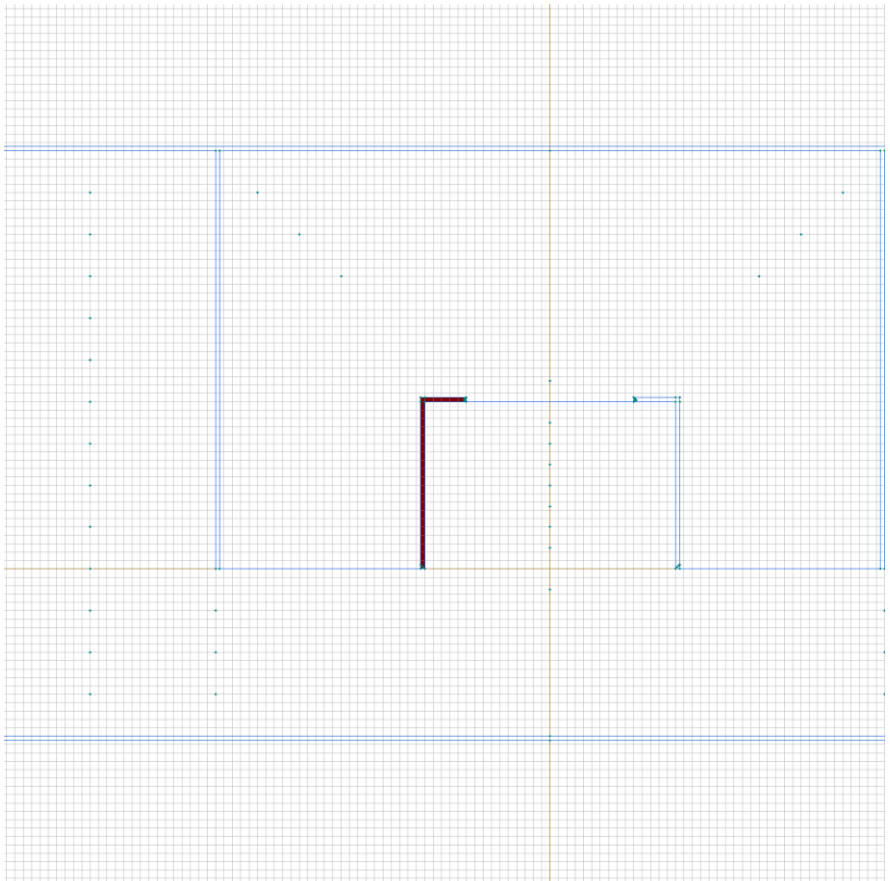
There are (1) objects with this label

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: block "elec2"

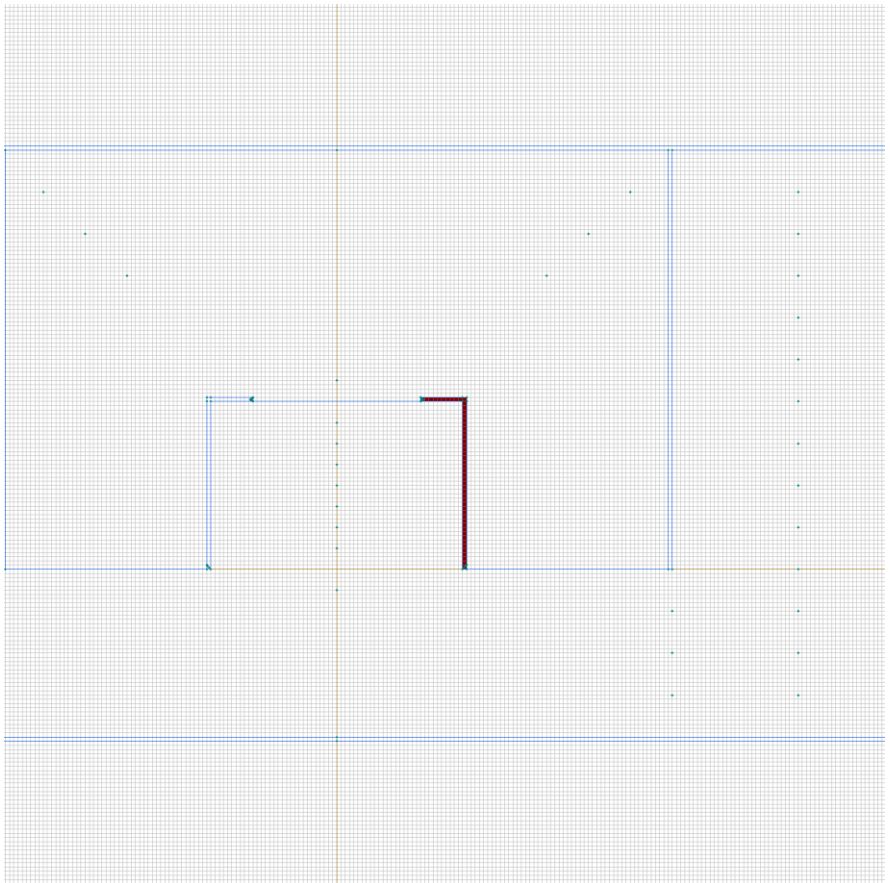
There are (1) objects with this label

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: block "air"

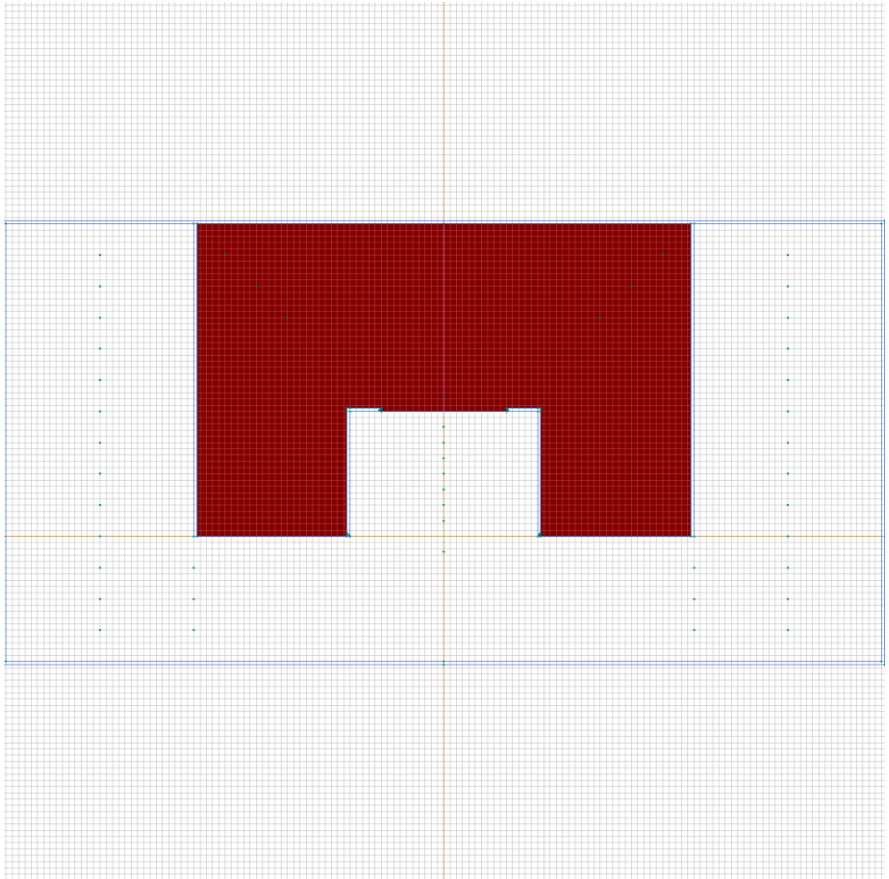
There are (1) objects with this label

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

Electric conductivity: $\sigma=0$ [S/m]

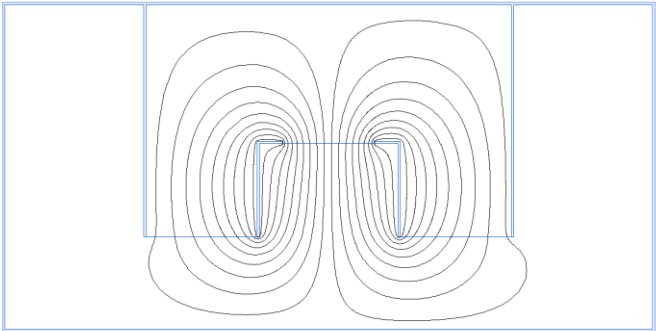
Current density: $j=0$ [A/m²], phase 0 [deg]

Conductor's connection: in parallel



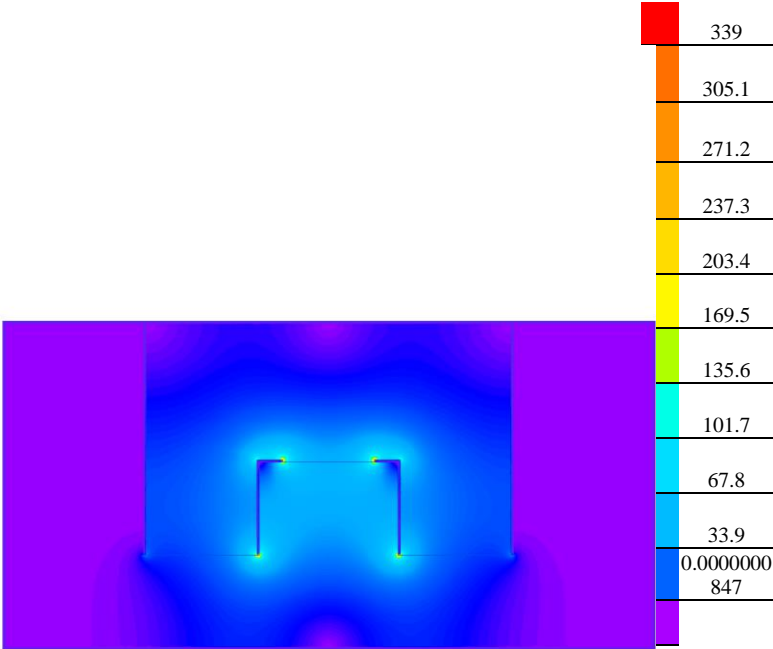
Results

Field lines



Results

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



Nonlinear dependencies

No non-linear dependencies are used in this problem data