

# Problem info

Problem type: Transient Magnetics (integration time: 0.25 s.)

Geometry model class: Plane-Parallel

Problem database file names:

- Problem: *TEMagn1.pbm*
- Geometry: *Temagn1.mod*
- Material Data: *Temagn1.dms*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

# Geometry model

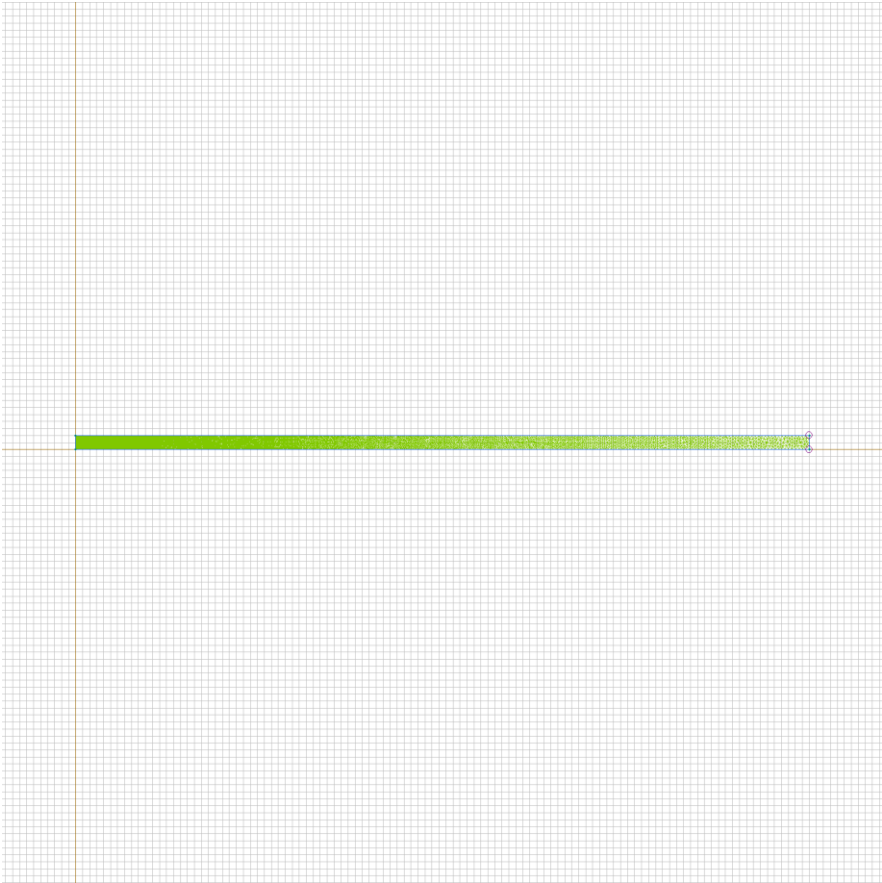


Table 1. Geometry model statistics

	With Label	Total
Blocks	1	1
Edges	2	4
Vertices	0	4

Number of nodes: 11240.

# 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:

- [body](#)
- 

Edges:

- [a](#)
- [symmetry](#)
- 

Vertices:

Detailed information about each label is listed below.

Labelled objects: block "body"

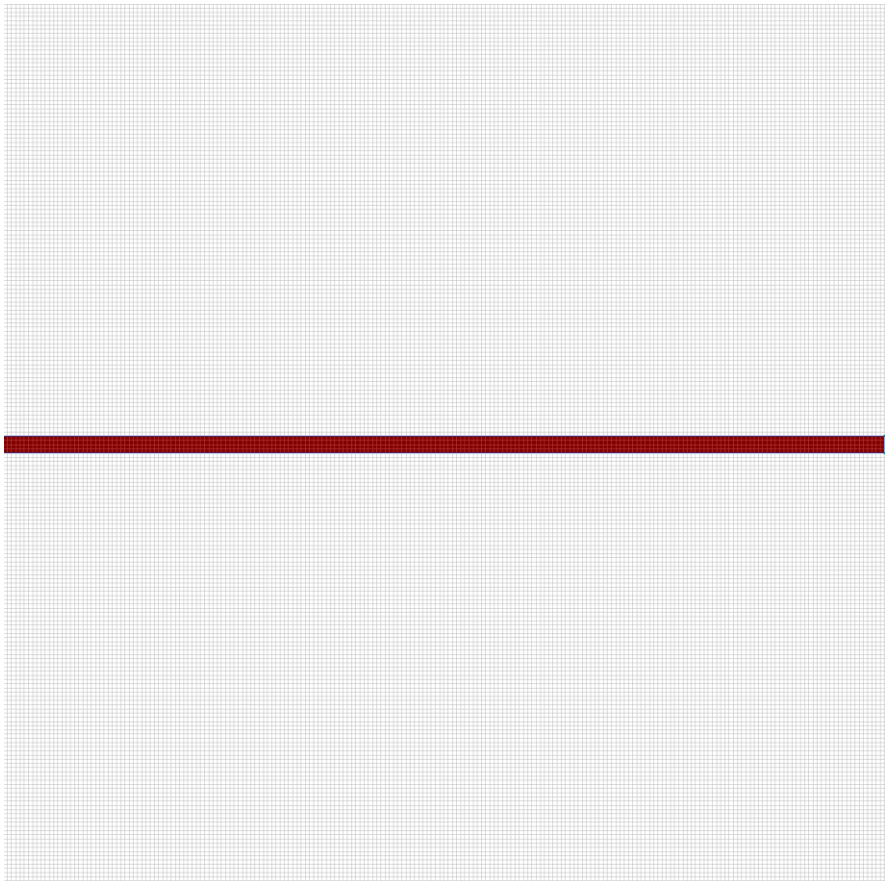
There are (1) objects with this label

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

Electric conductivity:  $\sigma(T)=2500000$  [S/m]

Voltage:  $U=0$  [V]

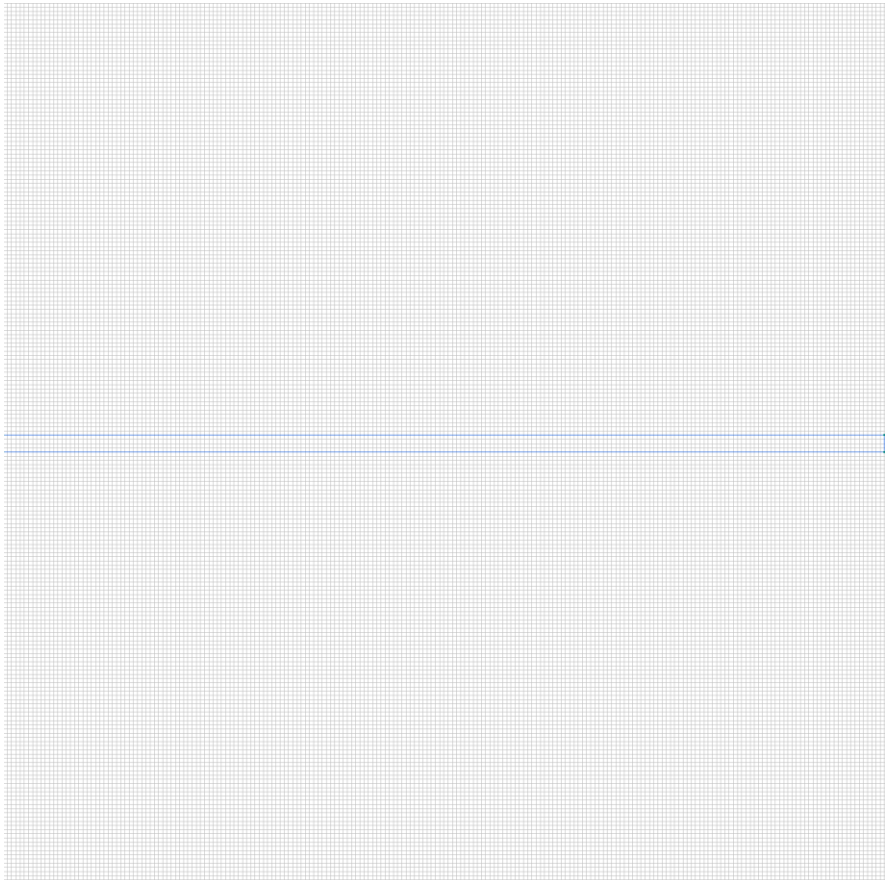
Conductor's connection: in parallel



Labelled objects: edge "a"

There are (1) objects with this label

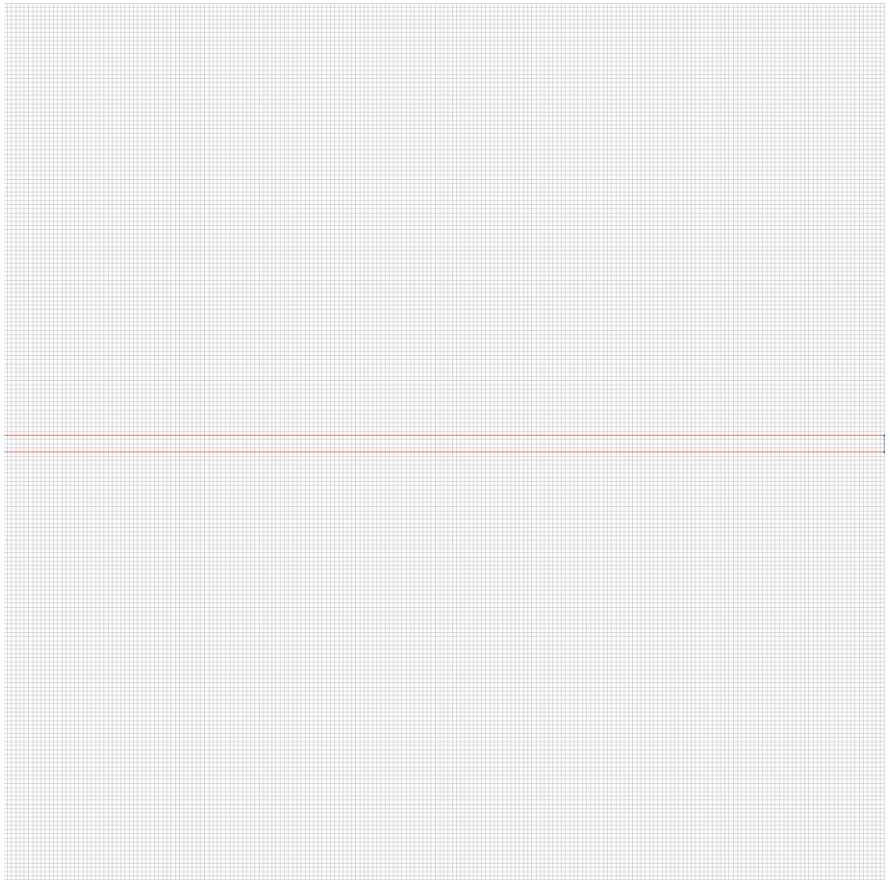
Magnetic potential:  $A=2$  [Wb/m]



Labelled objects: edge "symmetry"

There are (2) objects with this label

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



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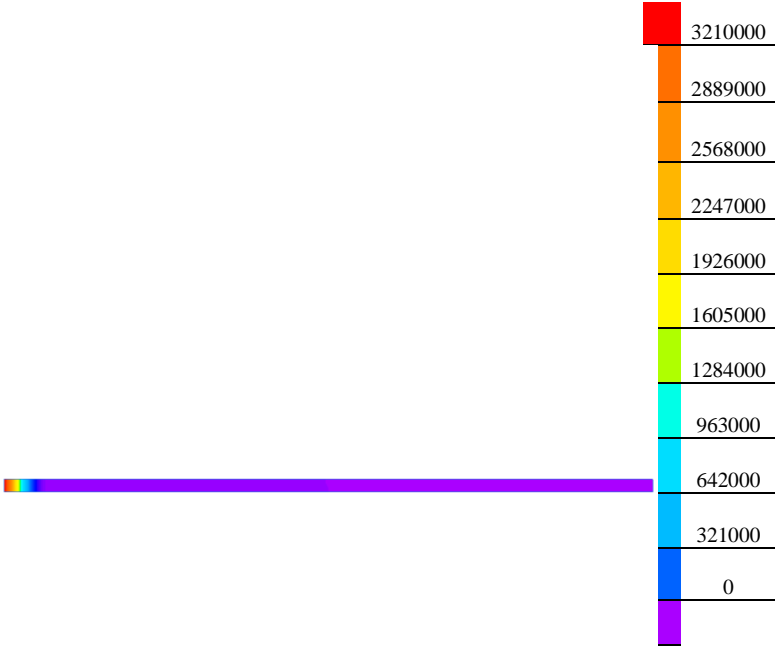
# Results

Field lines



# Results

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



# Nonlinear dependencies

No non-linear dependencies are used in this problem data