Problem info

Problem type: Magnetostatics
Geometry model class: Plane-Parallel
Problem database file names:

- Problem: *Perio1.pbm*
- Geometry: *Perio1.mod*
- Material Data: *Perio1.dms*
- Material Data 2 (library): *none*
- Electric circuit: *none*

Results taken from other problems:

- *none*

Geometry model

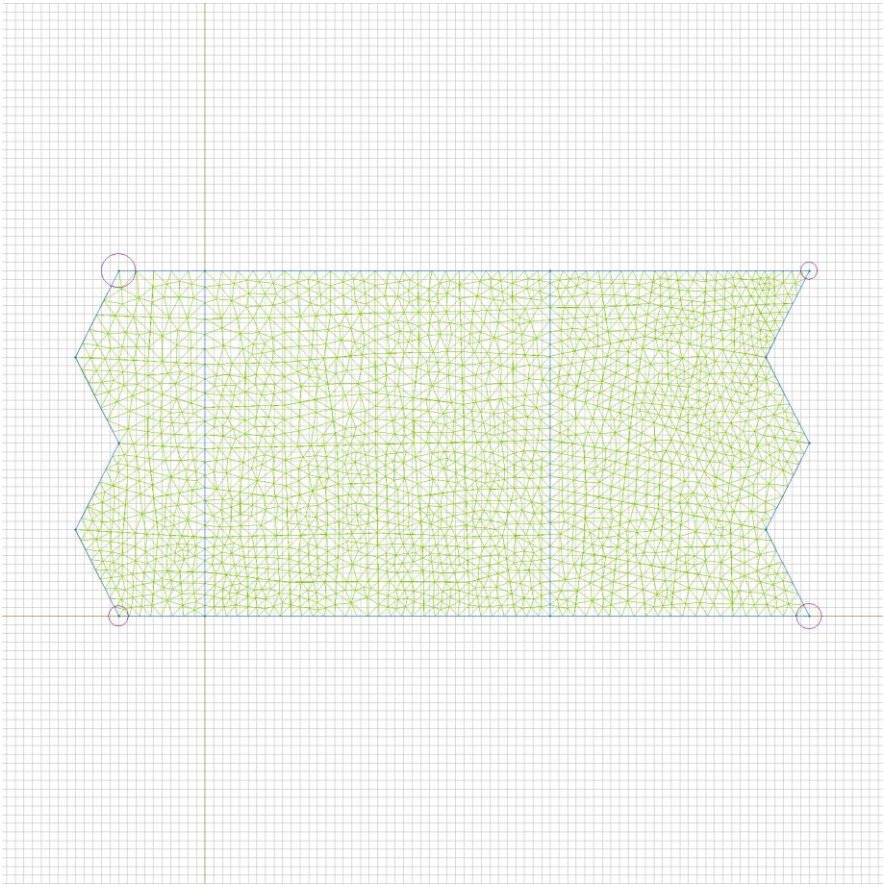


Table 1. Geometry model statistics

	With Label	Total
Blocks	2	3
Edges	2	16
Vertices	0	14

Number of nodes: 1905.

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)

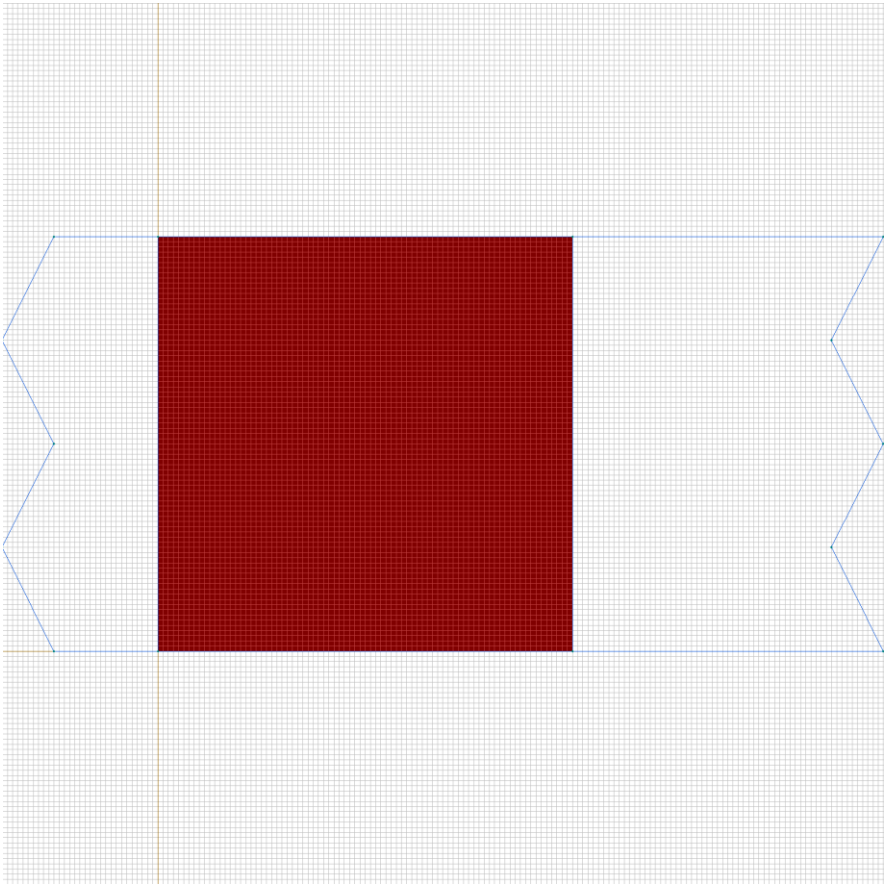
Blocks:	Edges:	Vertices:
• Source + • Source - •	• A = 0 • Periodic •	

Detailed information about each label is listed below.

Labelled objects: block "Source +"

There are (1) objects with this label

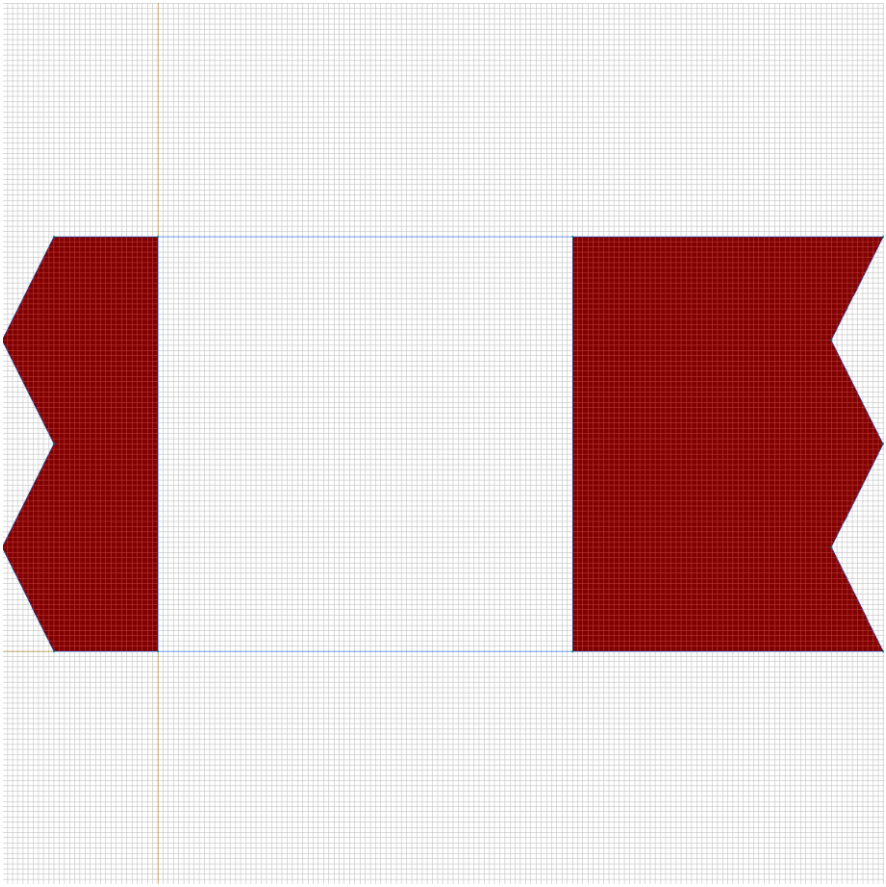
Relative magnetic permeability: mu_x=1, mu_y=1
Current density: j=1000 [A/m2]
Conductor's connection: in parallel



Labelled objects: block "Source -"

There are (2) objects with this label

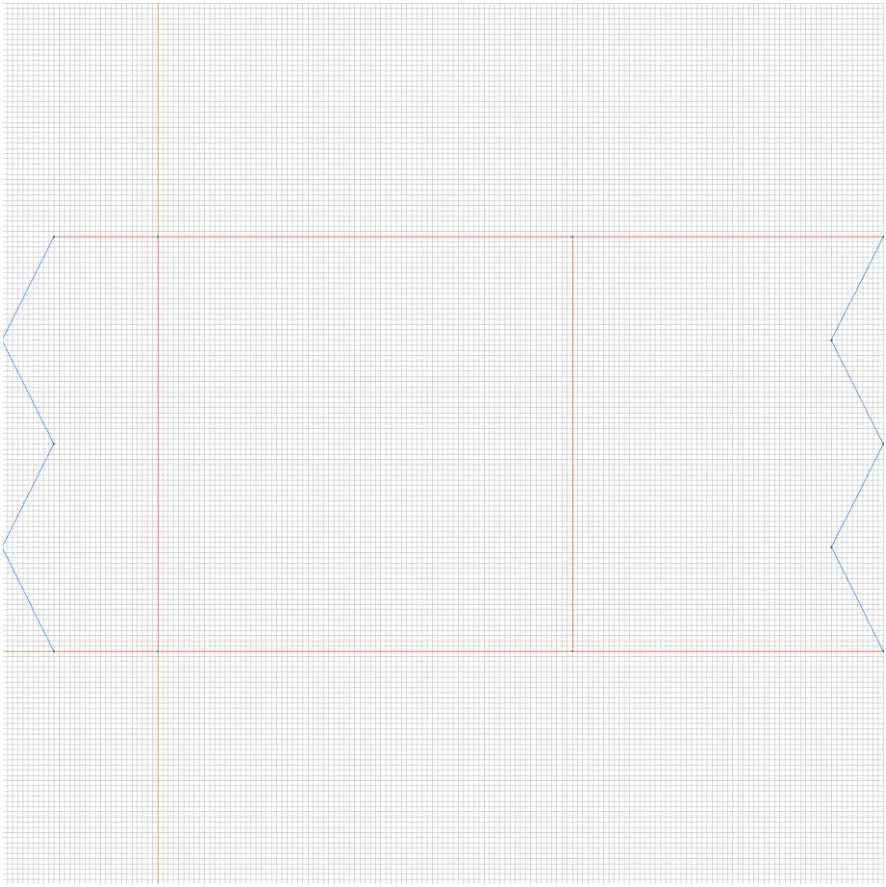
Relative magnetic permeability: mu_x=1, mu_y=1
Current density: j=-1000 [A/m2]
Conductor's connection: in parallel



Labelled objects: edge "A = 0"

There are (8) objects with this label

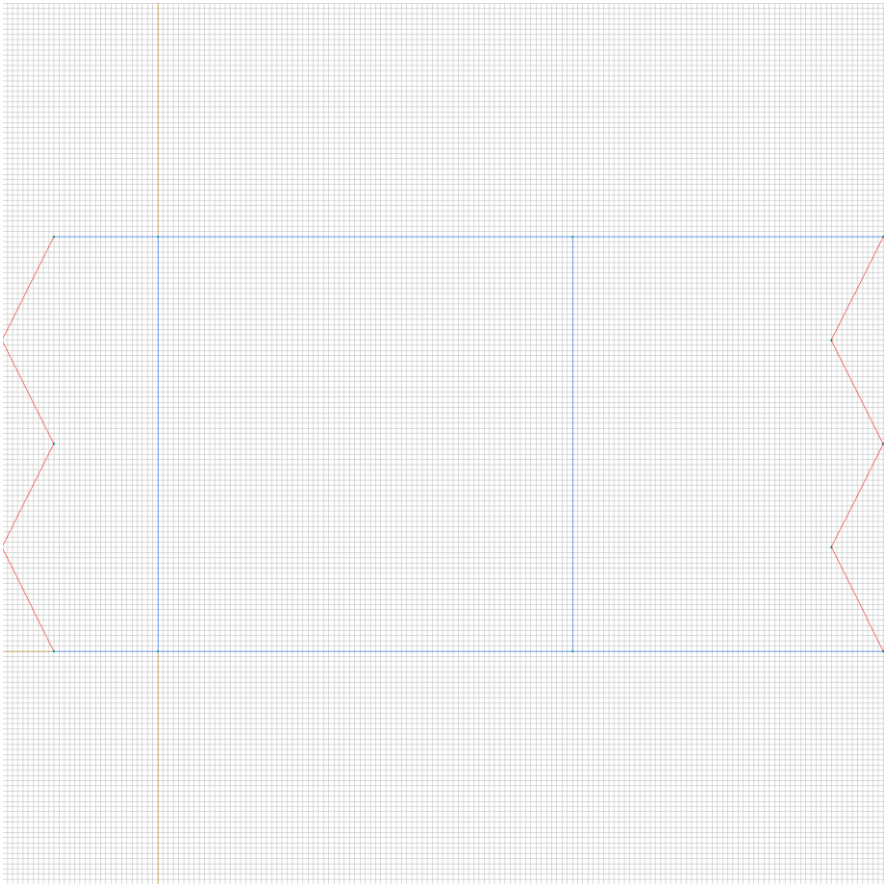
Magnetic potential: A=0 [Wb/m]



Labelled objects: edge "Periodic"

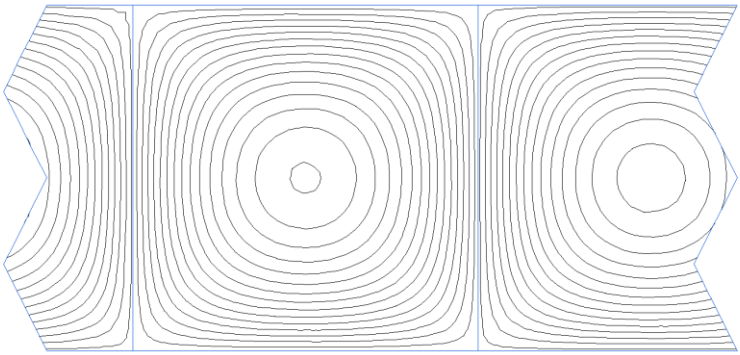
There are (8) objects with this label

Even periodic: A1=A2



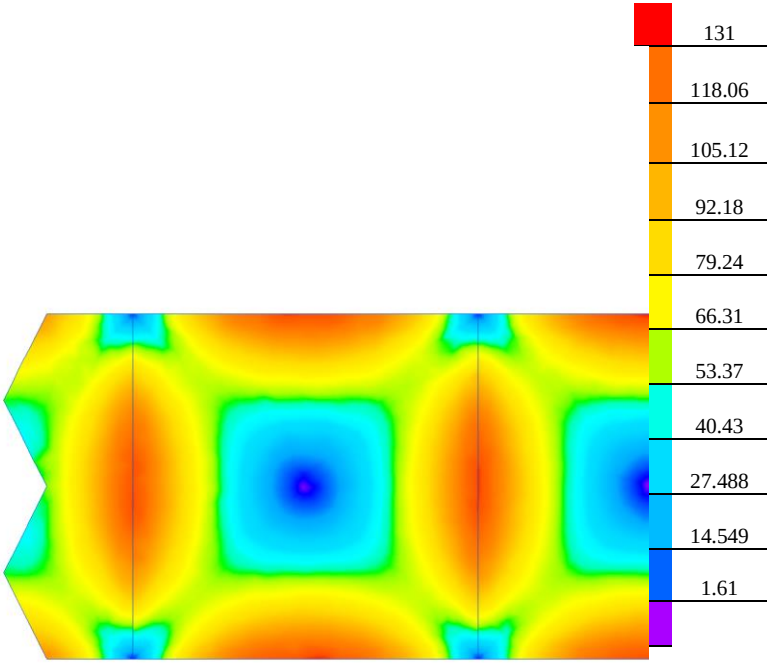
Results

Field lines



Results

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



Nonlinear dependencies

No non-linear dependencies are used in this problem data