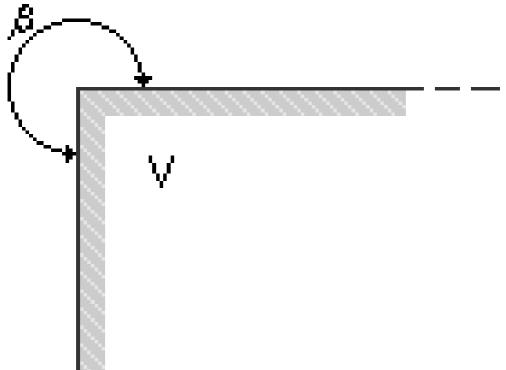
QuickField simulation report

Two intersecting conducting planes electric field

Calculation of the electric field distribution near two intersecting conducting planes



This automatically generated document consists of several sections, which specify the problem setup and finite element analysis simulation results. Navigation links in the top of each page lead to corresponding sections of this report.

Problem description and QuickField simulation files: https://quickfield.com/advanced/intersecting_planes_corner.htm

Problem info

Problem type: Electrostatics

Geometry model class: Plane-Parallel

Problem database file names:

- Problem: intersecting_planes_corner.pbm
- Geometry: Intersecting_planes_corner.mod
- Material Data: Intersecting_planes_corner.des
- Material Data 2 (library): none
- Electric circuit: none

Results taken from other problems:

none

Geometry model

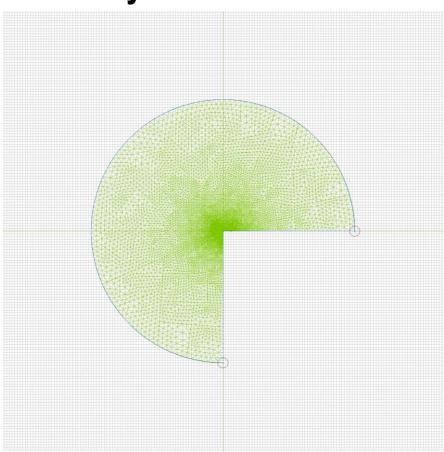


Table 1. Geometry model statistics

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

Number of nodes: 11746.

Labelled objects

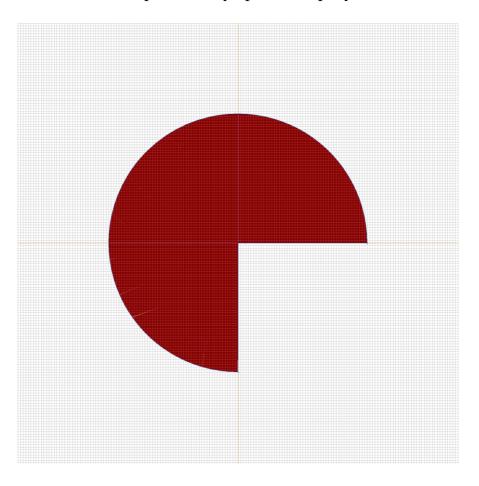
There are following labelled objects in the geometry model (Material Data file could contain more labels, but only those labels that assigned to geometric objects are listed)

Blocks:	Edges:	Vertices:
• <u>vacuum</u>	• <u>strip</u>	
•	• <u>zero</u>	
	•	

Detailed information about each label is listed below.

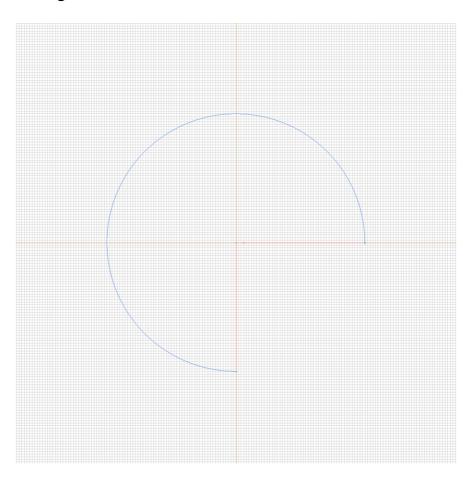
Labelled objects: block "vacuum"
There are (1) objects with this label

Relative electric permittivity eps_x=1, eps_y=1



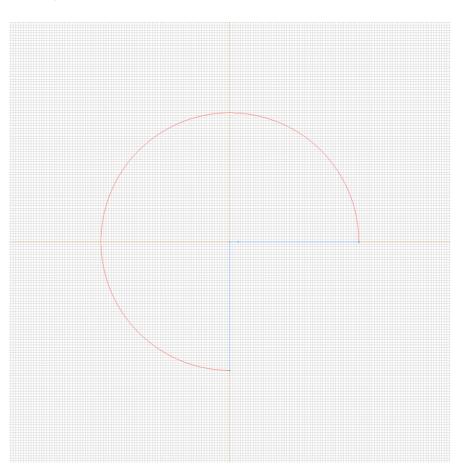
Labelled objects: edge "strip"
There are (3) objects with this label

Voltage U=100 [V]



Labelled objects: edge "zero"
There are (1) objects with this label

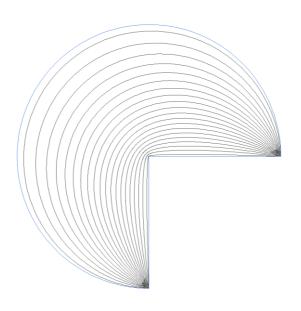
Voltage U=0 [V]



Problem info Geometry model Labelled Objects Results Nonlinear dependencies

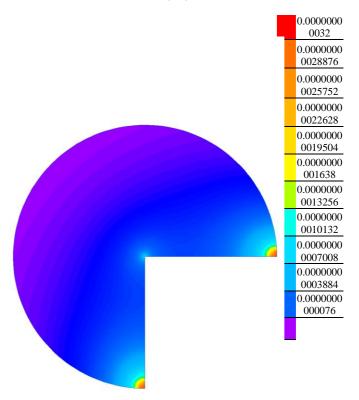
Results

Field lines



Results

Color map of Electric induction |D| [C/m2]



Nonlinear dependencies

No non-linear dependencies are used in this problem data