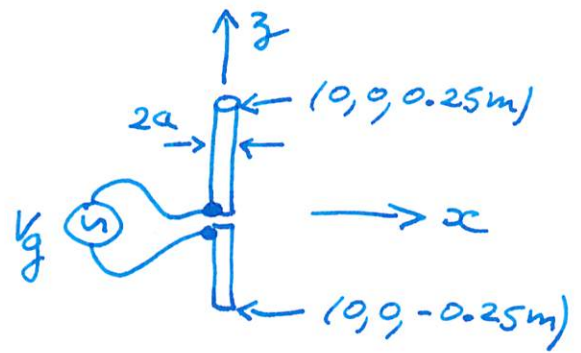


Feko Model of Dipole

$f = 300 \text{ MHz}$
length = 0.5 m
diameter $2a = 1 \text{ mm}$
conductivity = ∞
 $V_g = 1 \text{ V}$



cad feko:

Construct \rightarrow Line

Click on Model Tree \rightarrow Model \rightarrow Line 1

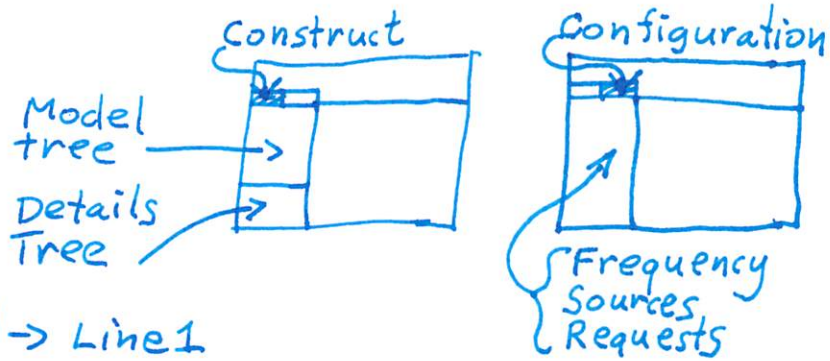
Click on Details Tree; Right click Wire 1 \rightarrow create port
Model Tree \rightarrow Freq. 300 MHz

Source/Load \rightarrow Voltage Source 1 V

Request \rightarrow Far fields, currents

Mesh \rightarrow create Mesh \rightarrow wire radius $a = 0.0005$
(global)

Solve/Run \rightarrow Feko Solver



Post feko:

Home \rightarrow cartesian \rightarrow Far field, currents

Home \rightarrow Out file to see .out data

To get a frequency plot, set the frequencies in cad feko. Delete the Far Field and Current requests.

In post feko, ask for Home \rightarrow Smith.

Use Measure \rightarrow cursors to see the freq. and Γ values.