

full_code

April 19, 2017

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In [8]: # for MATLAB commands
import skrf as rf
%matplotlib inline
from pylab import *
rf.styleley()

from skrf.calibration import SOLT

# a list of Network types, holding 'ideal' responses
my_ideals = [
    rf.Network('load_ideal.s2p'),
    rf.Network('open_ideal.s2p'),
    rf.Network('short_ideal.s2p'),
    rf.Network('thru_ideal.s2p'),
]

# a list of Network types, holding 'measured' responses
my_measured = [
    rf.Network('load.s2p'),
    rf.Network('open.s2p'),
    rf.Network('short.s2p'),
    rf.Network('thru.s2p'),
]

## create a SOLT instance
cal = SOLT(
    ideals = my_ideals,
    measured = my_measured,
)

## run and apply calibration to a DUT

# run calibration algorithm
cal.run()

# apply it to a dut (here the standards)
open_ = rf.Network('open.s2p')
open_corr = cal.apply_cal(open_)
```

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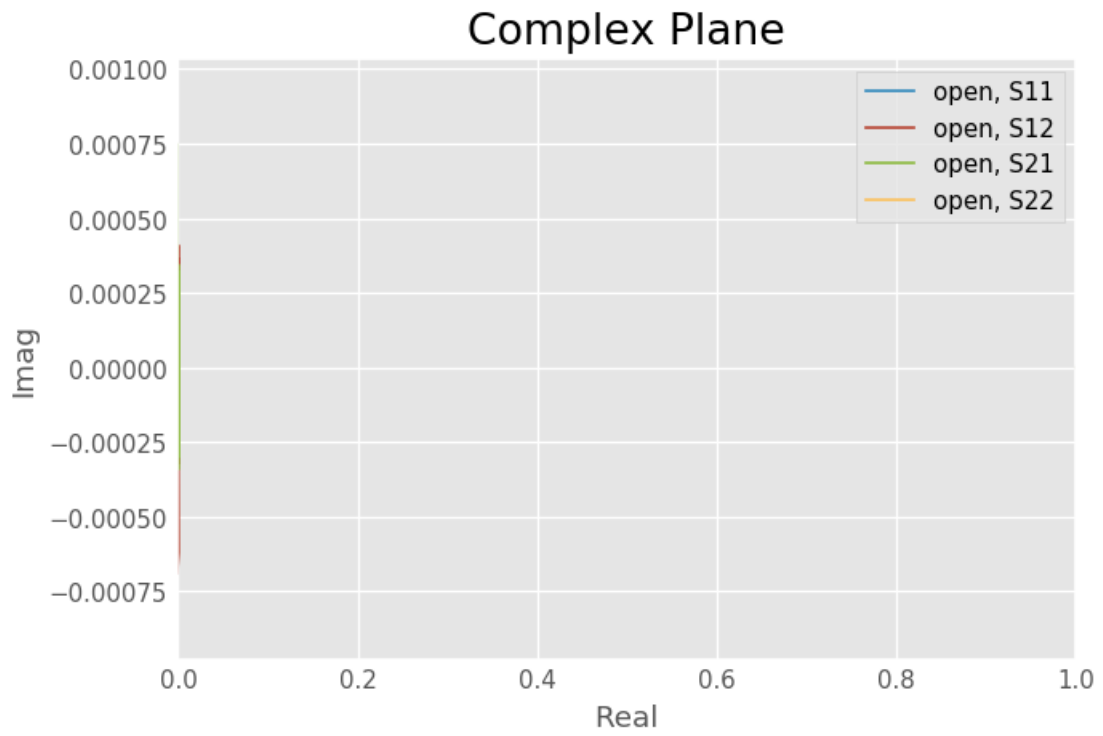
short = rf.Network('short.s2p')
short_corr = cal.apply_cal(short)
load = rf.Network('load.s2p')
load_corr = cal.apply_cal(load)
thru = rf.Network('thru.s2p')
thru_corr = cal.apply_cal(thru)

# plot results
#figure(1)
#title('Corrected OPEN standard')
#open_corr.plot_s_db()
#figure(2)
#open_corr.plot_s_smith()
#figure(3)
#title('Corrected SHORT standard')
#short_corr.plot_s_db()
#figure(4)
#short_corr.plot_s_smith()
#figure(5)
#title('Corrected LOAD standard')
#load_corr.plot_s_db()
#figure(6)
#load_corr.plot_s_smith()
#figure(7)
#title('Corrected THRU standard')
#thru_corr.plot_s_db()
#figure(8)
#thru_corr.plot_s_smith()

# mikrocontroller forum
open_corr.plot_s_complex()

# save results
#dut_caled.write_touchstone()

```



In []: