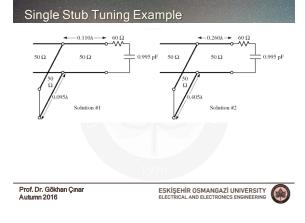


susceptance of -j1.47From SC end to line: $l_1 = 0.095\lambda$

 $y_2 = 1.0 - j1.47$ $d_2 = 0.260\lambda$ this stub needs a susceptance of j1.47. From SC end to line: $l_2 = 0.405\lambda$



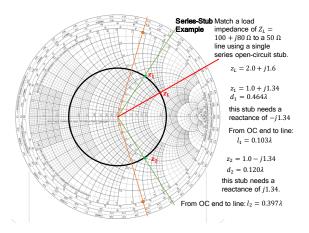
Single Stub Tuning

Prof. Dr. Gökhan Çınar

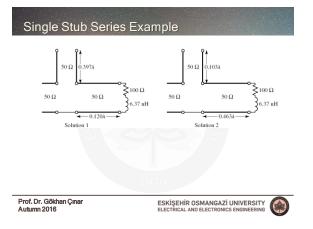
Autumn 2016

 Y_0

Z₀ Z_L



1



Single Stub Exercise 1

A load impedance $Z_L = 100 + j80 \Omega$ is to be matched to a 75 Ω line using a single shunt-stub tuner. Find two designs using open-circuited stubs.

Repeat the problem for short-circuited stubs.

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Single Stub Exercise 2

A load impedance $Z_L = 90 + j60 \ \Omega$ is to be matched to a 75 Ω line using a single series-stub tuner. Find two designs using short-circuited stubs.

Repeat the problem for open-circuited stubs.

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