

*Lecture 09 -- Smith Chart Applications and S-Parameter Introduction*

What plane does a Smith Chart depict? What coordinate system is overlaid on that plane?

Why are inductive impedances on the top half plane? Why are capacitive impedances on the bottom half-plane?

How do constant conductance and constant susceptance curves appear on a Smith chart?

Draw a matching network that could be used to match to  $Z_{in} = 1 + j$

Draw a matching network that could be used to match to  $Z_{in} = 2$

How does a transmission line transform an impedance on a Smith Chart?

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