

Preparation Assignments

Due Monday, January 28

A negative imaginary component in a load is considered capacitive and a positive component is inductive. If you want to minimize the cable length used in a matching stub, would you use a short or open circuited stub to eliminate capacitance? inductance?

How much cable length would you need to add if you changed from one to the other?

Due Monday, January 30

A 10 V source with an internal impedance 50Ω is attached to a 150Ω line with a 300Ω load. What is the magnitude of the short incident pulse initially propagating toward the load? What is the magnitude of the first reflection?