4.2 – Impedance and Admittance Matricies

Reading Assignment: *pp. 170-174*

A passive load is an example of a **1-port** device—only **one** transmission line is connected to it.

Q: *But, we use impedance Z, admittance Y, or reflection coefficient Γ to **characterize** a load. How do we characterize a **multi-port** device?*

A:

HO: The Impedance Matrix

HO: The Admittance Matrix

HO: Reciprocal and Lossless Devices

Q: *But how can we **determine**/measure the impedance and admittance matrix?*

A: **Example: Evaluating the Admittance Matrix**

Q: *OK, but what are the impedance and admittance matrix **good** for? How can we **use** it to solve circuit problems?*

A: **Example: Using the Impedance Matrix**