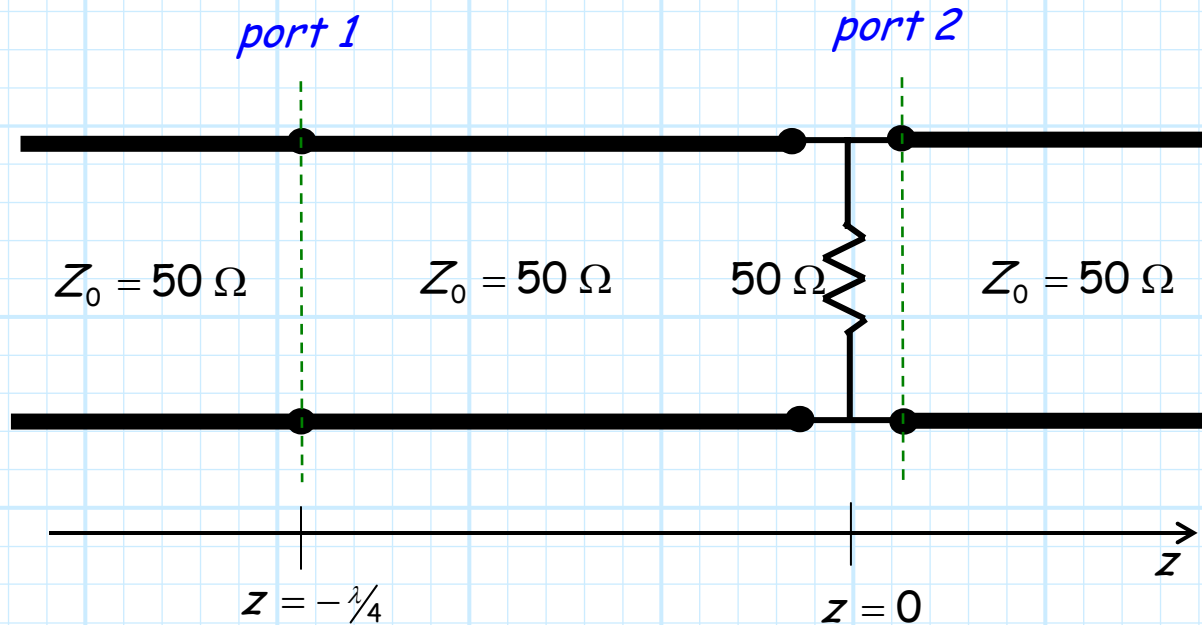


Special Problem 4.3-14

Consider the two port device below:



Determine the complete scattering matrix of this two-port device.

Hint: Use your knowledge of transmission line theory to solve this problem! What are the voltage and current along the two transmission lines? What boundary conditions are appropriate?