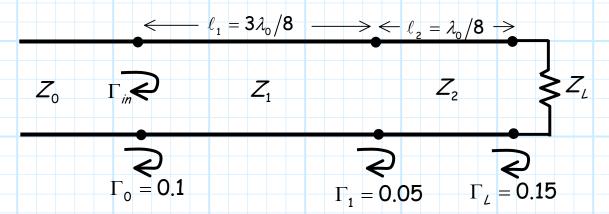
## Special Problem 5.5-1

Use the theory of small reflections to determine a numeric value for the input reflection coefficient  $\Gamma_{in}$ , at the design frequency  $\omega_0 = v_p/\lambda_0$ .

Assume that the propagation velocity is the same in all transmission lines.



Note that the transmission line sections have different lengths!