

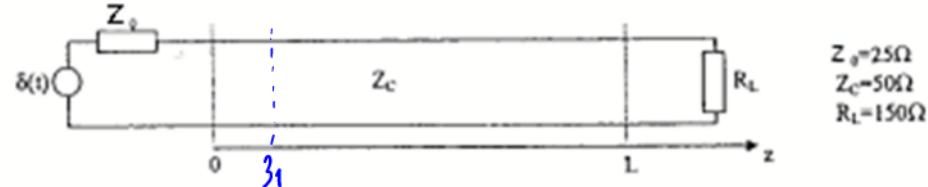


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Homework 2  
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Consider the following lines. All the impedances are real.

A Dirac pulse is generated at  $t = 0^+$

$$1 \uparrow e(t) = \delta(t)$$



Knowing:

$$V(z, p) = E(p) \frac{Z_C}{Z_0 + Z_C} \frac{e^{-pz} + \rho_L e^{-p(2L-z)}}{1 - \rho_0 \rho_L e^{-2pz}}$$

$$I(z, p) = E(p) \frac{1}{Z_0 + Z_C} \frac{e^{-pz} - \rho_L e^{-p(2L-z)}}{1 - \rho_0 \rho_L e^{-2pz}}$$

$$\text{with } a = \frac{1}{p} = \frac{1}{\sqrt{LC}}$$

Compute and draw  $N(z_1, t)$

$$\text{We have } \frac{1}{1-x} = 1+x+x^2+x^3+x^4+\dots$$





























































