$$\frac{d^2V}{dz^2} = -R\frac{di}{dz} = +RGV$$

$$Z_{in} = \frac{V(-L)}{i(-L)}$$

- Use the fire, at
$$Z=0$$
 $\frac{V(0)}{i(0)}=R_L$

with
$$R=G=1$$
 obtain