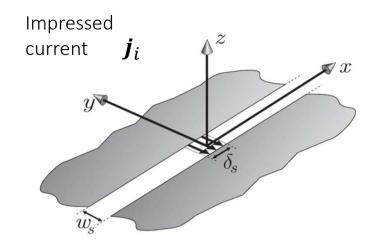
Home Assignment



$$j_{\text{inc},y}(x=0,y) = I_0 \frac{\text{rect}_{\delta_s}(x)}{\delta_s}$$

Derive expressions for

- 1. The spectral Green's function of the slot $D_{\mathrm{slot}}(k_{\chi})$
- 2. The spectrum of the voltage on the slot $V(k_x)$
- 3. The spatial voltage on the slot v(x)
- 4. The input impedance $Z_{in,slot}$