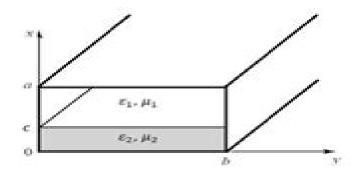
Question 5

Consider that the rectangular waveguide is partially filled with dielectric medium 2 from x = 0 to x = c and partially filled with medium 1 from x = c to x = a (a < b and 0 < c < a).



(a) Show that any mode TE_x or TM_x will fail to satisfy the boundary conditions, except for the $TE_{x_{mo}}$ case. Solve for the $TE_{x_{mo}}$ mode and find the transcendental equation that governs the propagation constant given by:

$$\frac{\mu_2}{k_{2\pi}} \tan(k_{2\pi}c) + \frac{\mu_1}{k_{1\pi}} \tan(k_{1\pi}(a-c)) = 0,$$

where $k_{1x} = \sqrt{k_1^2 - \beta^2}$, and $k_{2x} = \sqrt{k_2^2 - \beta^2}$

- (b) For the $TE_{x_{mo}}$ mode, what are the wave impedances in the two regions?
- (c) Find the hybrid modes (having both E_z and H_z) by solving TM_{xms} modes, which have electric Hertz potential in x-direction: Π = Xψ(x, y)e^{iβx}
- (d) Letting $\varepsilon_1 = \varepsilon_2$ and $\mu_1 = \mu_2 = \mu$, show the cutoff frequency for the dominant $TM_{x_{mn}}$ mode is obtained by:

$$\omega_c = \frac{\pi}{b} \sqrt{\frac{\varepsilon_2(\alpha - c) + \varepsilon_1 c}{\mu \varepsilon_1 \varepsilon_2 \alpha}}$$
.

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D Keegan

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