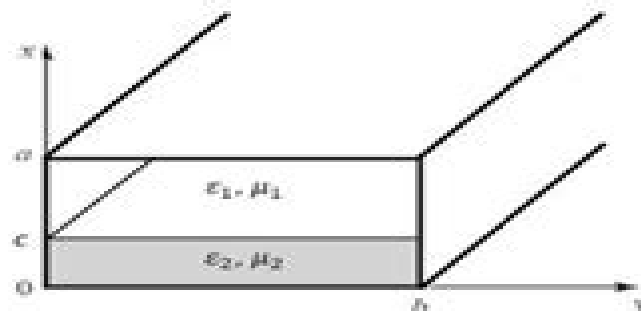


Question 5

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 $TE_{x_{m0}}$ case. Solve for the $TE_{x_{m0}}$ mode and find the transcendental equation that governs the propagation constant given by:

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

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

(b) For the $TE_{x_{m0}}$ mode, what are the wave impedances in the two regions?

(c) Find the hybrid modes (having both E_x and H_x) by solving $TM_{x_{mn}}$ modes, which have electric Hertz potential in x -direction: $\Pi = \mathcal{E} \psi(x, y) e^{i\beta z}$

(d) Letting $\epsilon_1 = \epsilon_2$ and $\mu_1 = \mu_2 = \mu$, show the cutoff frequency for the dominant $TM_{x_{mn}}$ mode is obtained by:

$$\omega_c = \frac{\pi}{b} \sqrt{\frac{\epsilon_2(a-c) + \epsilon_1 c}{\mu \epsilon_1 \epsilon_2 a}}.$$

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Table of Contents Partially Filled Rectangular Waveguide

1. Understanding the eBook Partially Filled Rectangular Waveguide
 - The Rise of Digital Reading Partially Filled Rectangular Waveguide
 - Advantages of eBooks Over Traditional Books
2. Identifying Partially Filled Rectangular Waveguide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Partially Filled Rectangular Waveguide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Partially Filled Rectangular Waveguide
 - Personalized Recommendations
 - Partially Filled Rectangular Waveguide User Reviews and Ratings
 - Partially Filled Rectangular Waveguide and Bestseller Lists
5. Accessing Partially Filled Rectangular Waveguide Free and Paid eBooks
 - Partially Filled Rectangular Waveguide Public Domain eBooks
 - Partially Filled Rectangular Waveguide eBook Subscription Services
 - Partially Filled Rectangular Waveguide Budget-Friendly Options

6. Navigating Partially Filled Rectangular Waveguide eBook Formats
 - ePub, PDF, MOBI, and More
 - Partially Filled Rectangular Waveguide Compatibility with Devices
 - Partially Filled Rectangular Waveguide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Partially Filled Rectangular Waveguide
 - Highlighting and Note-Taking Partially Filled Rectangular Waveguide
 - Interactive Elements Partially Filled Rectangular Waveguide
8. Staying Engaged with Partially Filled Rectangular Waveguide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Partially Filled Rectangular Waveguide
9. Balancing eBooks and Physical Books Partially Filled Rectangular Waveguide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Partially Filled Rectangular Waveguide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Partially Filled Rectangular Waveguide
 - Setting Reading Goals Partially Filled Rectangular Waveguide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Partially Filled Rectangular Waveguide
 - Fact-Checking eBook Content of Partially Filled Rectangular Waveguide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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