

Level: 3rd year

Department: Electrical

tment: Electrical

Course: Electromagnetic Wave

Devices

Date: 11 June 2023 Total score: 90 marks Course Code: ECE308

Academic program: Communication

Academic Year: 2nd term 2023

No. of exam paper: 7 Pages Time allowed: 3 Hours



Examiner: Dr. Galal Nadim

Final Exam

Answer the following questions (use graphs and illustrations to clarify your answer):

Q#1

[50 Marks]

- a) Two rectangular waveguides are joined end-to-end. The guides have identical dimensions, where a=2b. One guide is air-filled; the other is filled with a lossless dielectric have ε'_R
 - Determine the maximum allowable value of ε'_R such that single-mode operation can be simultaneously ensured in both guides at some frequency.
 - Write an expression for the frequency range over which single-mode operation will occur in both guides; your answer should be should be in terms of ε'_R, guide dimensions as needed, and other known constants



b) For a waveguide show that

$$\lambda = \frac{\lambda_{_{\mathrm{g}}} \; \lambda_{_{\mathrm{c}}}}{\sqrt{\lambda_{_{\mathrm{g}}} \; + \; \lambda_{_{\mathrm{c}}}}}$$

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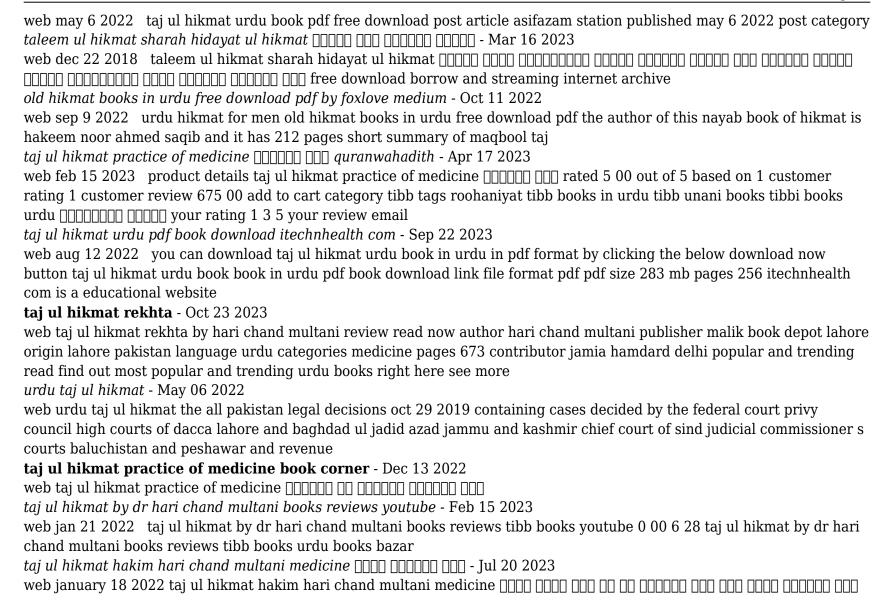
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