



Level: 3rd year

Department: Electrical

Course: Electromagnetic Wave
Devices

Date: 11 June 2023

Total score: 90 marks

Academic Year: 2nd term 2023

Academic program: Communication

Course Code: ECE308

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 .
- i) Determine the maximum allowable value of ϵ'_r such that single-mode operation can be simultaneously ensured in both guides at some frequency.
- ii) 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

$$\lambda = \frac{\lambda_g \lambda_c}{\sqrt{\lambda_g^2 + \lambda_c^2}}$$

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