



# Microwave and Radar Engineering

By M L Sisodia, Vijay Laxmi Gupta, J P Agrawal

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This book has been written for students and professionals in electronics and communication engineering. Its contents cover the core requirements of microwave and radar engineering courses.

The authors between them have over 60 years of teaching electronic and microwave technology, and their combined knowledge of the subject has produced an outstanding new text. They have taken special care in keeping a balance between the mathematical and the physical approach, and they have interspersed illustrations consistently throughout the book to help aid understanding.

Also included are a number of solved problems taken from university exams which reinforce the key concepts of the subject.

## CONTENTS

- Introduction
- Propagation through Waveguides
- Microwave Cavity Resonators
- Microwave Components
- Microwave Measurements
- Introduction to Microwave Tubes
- Microwave Tubes: Klystrons and reflex Klystrons
- Microwave Tubes: Helix Travelling Wave Tube and Backward Wave Oscillator (BWO)
- Microwave Tubes: Magnetrons
- Microwave Semiconductor Devices: Tunnel Diodes Varactor, Parametric Amplifiers and p-i-n Diodes
- Microwave Semiconductor Devices: IMPATT and TRAPATT Diodes
- Microwave Semiconductor Devices: Gunn Devices
- Principles of Radar
- Radar Transmitters and Devices

## KEY POINTS

Very experienced authors

Useful for students and practitioners in microwave engineering  
Balanced between mathematical theory and practical application.

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