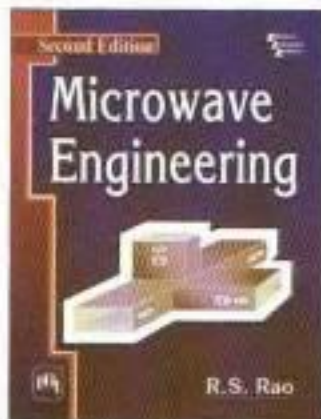


MICROWAVE ENGINEERING

SECOND EDITION

R.S. RAO



Eastern
Economy
Edition



THE BOOK

This thoroughly revised and updated edition, while retaining the major contents of the previous edition, presents the latest information on the various aspects of microwave engineering. With improved organization and enriched contents, the book explores expanded and updated information on the basic principles, characteristics and applications of commonly used devices in the design of various microwave systems.

The book commences with a discussion on microwave basics, EM wave theory, transmission line theory, hollow pipe waveguides, microwave junctions and goes on to provide in-depth coverage of waveguide components, klystrons, magnetrons and TWTs. The book focuses on the solid-state devices and microwave measurements as well.

The book has an added advantage of exercise section involving essay type questions, exercise problems, fill in the blanks, match the following and multiple choice questions, designed to reinforce the students' understanding of the concepts. This tailor-made book is appropriate for the undergraduate and postgraduate students of electronics and communication engineering.

HIGHLIGHTS OF THE SECOND EDITION

- Two new chapters, namely, *Klystrons*, and *Magnetrons and TWTs* are incorporated into the book.
- Several sections like *coaxial line analysis*, *microwave link analysis*, *microwave bench design*, *measurement of phase shift*, *measurement of dielectric constant*, and *network analyzers* have been introduced into the book.
- Numerous questions and solved problems have been added to the exercise section of each chapter.

THE AUTHOR

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