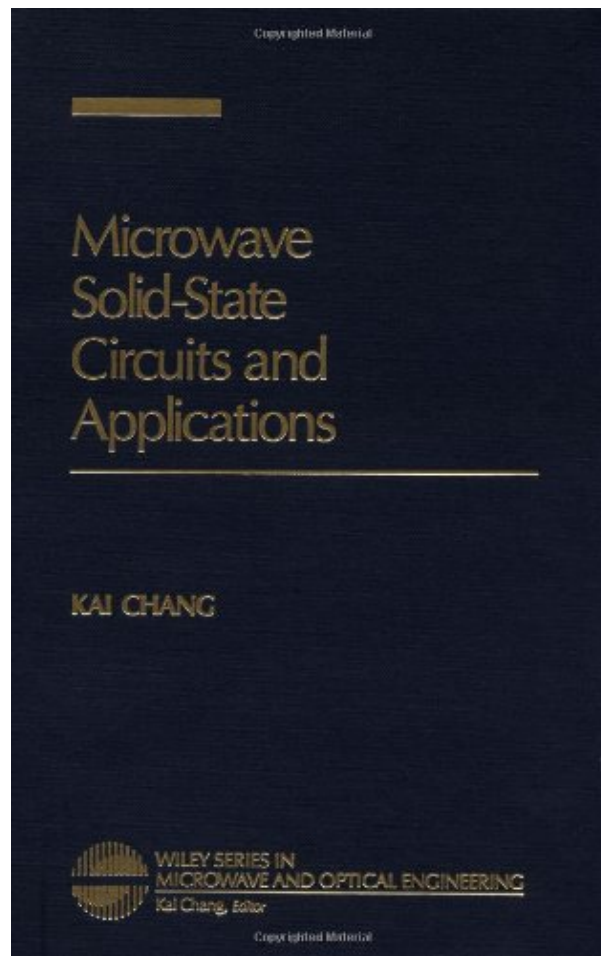


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From the Publisher

Focuses on the basic operating principles and the techniques used to incorporate the devices into circuit applications. Part one reviews fundamental principles in transmission lines and circuits as well as semiconductor physics. Two-terminal solid-state devices, circuits and applications are covered in the second section. Part three discusses three-terminal solid-state devices, circuits and applications. Introduces noise figures and system parameters for receiver design. Includes numerous examples and problems.

From the Back Cover

The main thrust of the rapid advance of microwave technology over the past four decades has been directed toward and powered by the development of new solid-state devices and circuits. In many cases, however, technological development has advanced with such speed that it has laxed the ability of professionals and educators to keep up with it, leaving both students and working electrical engineers with an incomplete knowledge of modern microwave technologies. Microwave Solid-State Circuits and Applications offers a comprehensive presentation of microwave technologies based on solid-state devices and circuits, with emphasis on operational principles and techniques for incorporating these devices into circuit applications. Fundamental design equations are derived and practical examples are given whenever possible. More than 300 illustrations serve to clarify principles and concepts under discussion, and a set of problems at the end of each chapter helps strengthen students' grasp of the subject. The book is organized into three sections: a review of fundamental principles in transmission lines and circuits, and semiconductor physics; two-terminal solid-state devices, circuits, and applications; and three-terminal solid-state devices, circuits, and applications. In addition, there is a special chapter on noise figures and some system parameters for receiver design. An ideal textbook for one-semester, senior-level or graduate courses in microwave solid-state circuits, this self-contained volume is also an excellent reference for practicing microwave, antenna, and solid-state engineers.

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- Sales Rank: #99560 in Books
- Published on: 1994-04-06
- Original language: English
- Number of items: 1
- Dimensions: 9.57" h x 1.06" w x 6.36" l, 1.81 pounds
- Binding: Hardcover
- 456 pages

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Best available introduction to microwave circuits

By gigahertz

Several years ago, I was working in a GaAs foundry here in the US. A brand-new intern was hired who had no experience in RF/microwave circuits. He was struggling for two weeks getting through a stack of books his boss lent to him (Pozar, Vendelin, etc.). Then I lent him this book.

After barely an hour, he was euphoric. At last he had found the book he was looking for. "He starts out assuming you know absolutely nothing!" he told me.

That's the strength of this author. He does an excellent job of explaining microwaves and high frequency solid state devices, covering advanced material in an easily understood style. The book is complete and self-contained, yet surprisingly concise and definitely not wordy. And unlike all the other authors, he really does assume the reader knows absolutely nothing about microwave circuits.

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