

Design
Performance
and Applications
of Microwave
Semiconductor
Control
Components

Kenneth E. Mortenson

Jose M. Borrego

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Design Performance And Applications Of Microwave Semiconductor Control Components

Jan W. Churchwell



Design Performance And Applications Of Microwave Semiconductor Control Components:

Design, Performance, and Applications of Microwave Semiconductor Control Components Kenneth E. Mortenson, Jose M. Borrego, 1972 **Design, performance and applications of microwave semiconductor control components** Kenneth E. Mortenson, 1972 Semiconductor Devices and Integrated Electronics A. G. Milnes, 2012-12-06

For some time there has been a need for a semiconductor device book that carries diode and transistor theory beyond an introductory level and yet has space to touch on a wider range of semiconductor device principles and applications. Such topics are covered in specialized monographs numbering many hundreds but the voluminous nature of this literature limits access for students. This book is the outcome of attempts to develop a broad course on devices and integrated electronics for university students at about senior year level. The educational prerequisites are an introductory course in semiconductor junction and transistor concepts and a course on analog and digital circuits that has introduced the concepts of rectification, amplification, oscillators, modulation, and logic and Switching circuits. The book should also be of value to professional engineers and physicists because of both the information included and the detailed guide to the literature given by the references. The aim has been to bring some measure of order into the subject area examined and to provide a basic structure from which teachers may develop themes that are of most interest to students and themselves. Semiconductor devices and integrated circuits are reviewed and fundamental factors that control power levels, frequency, speed, size, and cost are discussed. The text also briefly mentions how devices are used and presents circuits and comments on representative applications. Thus the book seeks a balance between the extremes of device physics and circuit design.

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1976 *Control Components Using Si, GaAs, and GaN Technologies* Inder J. Bahl, 2014-09-01. Control circuits are important parts of RF and microwave systems. Their compact size, high performance, and low cost have played a vital role in the development of cost-effective solutions and new applications during the past quarter century. This book provides a comprehensive treatment of such circuits including device operation and their models, basic circuit theory and designs, and applications. The unique features of this book include in-depth and comprehensive study of control circuits, extensive design equations and figures, treatment of practical aspects of circuits, and description of fabrication technologies. It provides you with a broad view of solid-state control circuits including various technologies and their comparison and up-to-date information. *Microwave Journal*, 1977 *Advanced Microwave Engineering* Rajeswari Chatterjee, 1988 *Telecommunications*, 1977 *Radio Electronics and Communications Systems*, 1985

Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1974-07 **Phased Array Antennas** Arthur A. Oliner, George H. Knittel, 1972 **Infrared-to-millimeter Wavelength Detectors** Frank R. Arams, 1973 **British Books in Print**, 1986 **Books in Print**, 1981 *Electronic Information Processing* William Vick Smith, 1974 **International Aerospace Abstracts**, 1990 **Who's who in**

Technology Today: Electronic and physics technologies Jan W. Churchwell, 1982 Directory of leading scientists and engineers who are the leaders in the most important areas of American technology Each entry gives education publications achievements area of expertise honors patents and personal information Paperbound Books in Print , 1992 **Scientific and Technical Aerospace Reports** , 1991 *Whitaker's Books in Print* , 1990

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