



## Semiconductor Devices

Electronics and You

# Semiconductor Devices And Circuits

**Gordon J. Deboo, Clifford N. Burrous**



## **Semiconductor Devices And Circuits:**

*Semiconductor Devices and Circuits* Henry Zanger, 1984      **Semiconductor Devices and Circuits** Charles L. Alley, Kenneth W. Atwood, 1971      **Power Semiconductor Devices and Circuits** A.A. Jaecklin, 2012-12-06 This symposium was the scientific technical event of the centennial celebration of the Asea Brown Boveri Switzerland. The purpose was to assess the present state of the art as well as shaping the basis for future progress in the area of power devices and related power circuits. The merger of Brown Boveri BBC with Asea to Asea Brown Boveri ABB three years ago gave new stimulus and enriched the technical substance of the symposium. By 1991 100 years after the formation of BBC in Switzerland as a single company this organization has been decentralized forming 35 independent ABB companies. One of them ABB Semiconductors Ltd directly deals with the power semiconductor business. These significant changes reflect the changes in the market place increased competition and higher customer expectations have to be fulfilled. In line with the core business activities of ABB and with the concept of sustainable development it is natural for ABB to be active in the area of power devices and circuits. Increased awareness towards energy conservation is one of the main drives for these activities. User friendliness is another drive integration of intelligent functions e.g. protection and or increased direct computer interfacing of the power circuits. Therefore also the R D activities related to the subject of this symposium will in the future be characterized by an even stronger coupling with the market needs. For the members of the R D Laboratories this means improved customer partnership beyond operational excellence.

**Semiconductor Devices, Circuits, and Systems** Albrecht Möschwitzer, 1991 Modern electronics is about implementing hardware functions in semiconductor chips and about the software that runs these semiconductor circuits. Very large scale integration VLSI of electronic circuits and systems needs interdisciplinary work by device physicists process developers circuit designers design automation specialists and computer architects. This book covers all these topics from semiconductor devices to systems in a compact manner. The text outlines the latest advances in semiconductor devices for VLSI circuits but also includes simple and easy to use analytical models as well as results of device simulation. The circuits part gives an overview of basic bipolar and field effect transistor gates and is mainly devoted to CMOS standard cells and functional blocks macrocells. The systems part outlines the top down design style of digital systems mainly processors and memories using functional blocks described in the previous circuit part. Finally some problems of testing and details of physical layout of chips are considered. As background to this text introductory courses such as Electron Physics Electronic Devices and Circuits or Computer Engineering would be helpful.

**Complete Guide to Semiconductor Devices** Kwok K. Ng, 1995      Reliability and Degradation M. J. Howes, D. V. Morgan, 1981      *High Speed Semiconductor Devices* H. Beneking, 1994-09-30 High Speed Semiconductor Devices is the first textbook to focus on this topic. It gives a comprehensive introduction suitable for advanced students of electrical engineering and physics. It is practically oriented considering both physical limits and technical feasibility. It is illustrated with extensive exercises full

solutions and worked examples that give practical insight to and extend the treatment of the text

**Semiconductor Device Physics and Design** Umesh Mishra, Jasprit Singh, 2007-11-06 Semiconductor Device Physics and Design teaches readers how to approach device design from the point of view of someone who wants to improve devices and can see the opportunity and challenges. It begins with coverage of basic physics concepts including the physics behind polar heterostructures and strained heterostructures. The book then details the important devices ranging from p-n diodes to bipolar and field effect devices. By relating device design to device performance and then relating device needs to system use, the student can see how device design works in the real world.

**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.

Integrated Circuits and Semiconductor Devices Gordon J. Deboo, Clifford N. Burrous, 1971

**Semiconductor and Electronic Devices** Adir Bar-Lev, 1993 Structured for a balance between physics and electronics, this text sets out to give students a good understanding of how the electrical parameters of all the major present-day semiconductor devices relate to the physics of that device, its material, its structure, and its operating conditions.

*Handbook of Semiconductor Electronics* Lloyd P. Hunter, 1970 Electronics textbook on methods and techniques for designing semiconductor circuits covers technical aspects, the effects of different types of transistors, the technology of semiconductor materials, design, measurement techniques, etc. Diagrams, graphs, illustrations, references, and statistical tables.

*Basic Electronics: Devices, Circuits, and Systems* Michael M. Cirovic, 1974

**Modern Semiconductor Devices for Integrated Circuits** Chenming Hu, 2010 For courses in semiconductor devices. Prepare your students for the semiconductor device technologies of today and tomorrow. Modern Semiconductor Devices for Integrated Circuits, First Edition introduces students to the world of modern

semiconductor devices with an emphasis on integrated circuit applications Written by an experienced teacher researcher and expert in industry practices this succinct and forward looking text is appropriate for both undergraduate and graduate students and serves as a suitable reference text for practicing engineers      **GaAs Devices and Circuits** Michael

Shur,1987-08-31 GaAs devices and integrated circuits have emerged as leading contenders for ultra high speed applications This book is intended to be a reference for a rapidly growing GaAs community of researchers and graduate students It was written over several years and parts of it were used for courses on GaAs devices and integrated circuits and on heterojunction GaAs devices developed and taught at the University of Minnesota Many people helped me in writing this book I would like to express my deep gratitude to Professor Lester Eastman of Cornell University whose ideas and thoughts inspired me and helped to determine the direction of my research work for many years I also benefited from numerous discussions with his students and associates and from the very atmosphere of the pursuit of excellence which exists in his group I would like to thank my former and present co workers and colleagues Drs Levinstein and Gelmont of the A F Ioffe Institute of Physics and Technology Professor Melvin Shaw of Wayne State University Dr Kastalsky of Bell Communications Professor Gary Robinson of Colorado State University Professor Tony Valois and Dr Tim Drummond of Sandia Labs for their contributions to our joint research and for valuable discussions My special thanks to Professor Morko for his help his ideas and the example set by his pioneering work Since 1978 I have been working with engineers from Honeywell Inc Drs

**Complete Guide to Semiconductor Devices** Kwok Kwok Ng,1995 Provides an overview of a complete collection of semiconductor devices Presents self contained data on over 180 device variations Suitable for a wide variety of audiences from students to practitioners to laypeople      **Analysis and Simulation of Semiconductor Devices** S.

Selberherr,2012-12-06 The invention of semiconductor devices is a fairly recent one considering classical time scales in human life The bipolar transistor was announced in 1947 and the MOS transistor in a practically usable manner was demonstrated in 1960 From these beginnings the semiconductor device field has grown rapidly The first integrated circuits which contained just a few devices became commercially available in the early 1960s Immediately thereafter an evolution has taken place so that today less than 25 years later the manufacture of integrated circuits with over 400 000 devices per single chip is possible Coincident with the growth in semiconductor device development the literature concerning semiconductor device and technology issues has literally exploded In the last decade about 50 000 papers have been published on these subjects The advent of so called Very Large Scale Integration VLSI has certainly revealed the need for a better understanding of basic device behavior The miniaturization of the single transistor which is the major prerequisite for VLSI nearly led to a breakdown of the classical models of semiconductor devices      **Semiconductor Devices And Circuits** Jerry C. Whitaker,1999-12-29 The venerable vacuum tube has retired Semiconductor devices now form the core of the ongoing electronics revolution and serve as the indispensable basis of most electronic designs From semiconductor materials to their

failure modes from the simplest diodes to state of the art image display devices Semiconductor Devices and Circuits presents a complete overview of semiconductor technology It emphasizes practical information and applications in an easy to use format ideal for everyday use by engineers technicians and students With chapters contributed by an international panel of experts this reference provides complete descriptions of the semiconductor devices central to the electronics industry without the bulk of the larger more general handbooks Beyond its background material device descriptions and circuit models Semiconductor Devices and Circuits also contains a section featuring essential material properties conversion factors standards and mathematical tables The end result is a convenient self contained resource needed on the desk or bookshelf of every electronics specialist and student

**Transistors** Mikhail Efimovich Levinshtein, G. Simin, 1998 This new book by M Levinshtein and G Simin tells the readers about the design and work of the most important and most interesting semiconductor devices the transistors The book is written in a friendly and easy to read manner and is meant primarily for young people high school students freshmen and sophomores However the original approach to semiconductor physics makes this book attractive to physics teachers and professors as well The book consists of 3 parts Part I The section on semiconductors describes the main properties of semiconductors explains the difference between the semiconductors metals and dielectrics We find here the explanation of the appearance of those wonderful properties of semiconductors which underlie their numerous applications This part also contains a vivid and detailed description of the main types of motion of the charge carriers in semiconductors thermal motion motion in the electric field and diffusion Part II covers Barriers and Junctions In order to understand the principles of the work of the most important semiconductor devices it is not sufficient just to get to know the properties of semiconductors It is also quite essential to study certain specific and interesting phenomena the so called junctions This part of the book contains a detailed and vivid description of those properties and in that view of the properties of the p n junctions and diodes photodiodes varicaps light emitting diodes solar cells and rectifier diodes Part III covers Transistors It describes the basis of the work of the Bipolar and Field Effect Transistors Without making use of rather complicated equations or notions of quantum mechanics the authors give a clear and simple explanation of the cause of ability of those devices to amplify and generate electric signals They tell the readers how transistors are manufactured and describe the work of the transistor s simplest circuits The last chapter of the book is devoted to the ideas underlying the transistors integrated circuits It is these integrated circuits which are the foundation of modern electronics from telephone apparatus to supercomputers from medical instruments to cosmic communication systems In conclusion the authors make an attempt to foresee and imagine together with the reader what other devices may come to substitute the transistor in the future

**Components and Devices** T. Koryu Ishii, 2013-10-22 Handbook of Microwave Technology Volume I Components and Devices is a compact reference tool which provides both the fundamentals and applications of microwave technology This volume covers components and devices used in microwave circuits Chapters in the book discuss

topics on microwave transmission lines microwave resonators and microstrip line components Microwave impedance matching techniques applications of microwave thermionic density modulated devices and microwave transistor oscillators and amplifiers are tackled as well Technicians scientists engineers and science and engineering students who are involved in microwave technology will find the text very useful

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