

Physics Of Semiconductor Devices Shur

M. Levinshtein, Michael Shur

Physics of Semiconductor Devices Michael Shur, 1990 This manual contains the PLOT software, user's guide and program description to accompany Michael Shur's 'Physics of semiconductor devices' - rear cover.

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Introduction to Electronic Devices Michael Shur, 1996 This book gives readers enough knowledge of the required principles so they can adapt the knowledge to new materials and types of devices. As device dimensions shrink and more exotic compound semiconductor materials are used in electronic circuits, the physics involved in understanding the device behavior becomes more complicated and more fascinating.

Physics of Semiconductor Devices, 2004

Physics of Semiconductor Devices Simon M. Sze, Yiming Li, Kwok K. Ng, 2021-03-03 The new edition of the most detailed and comprehensive single-volume reference on major semiconductor devices The Fourth Edition of *Physics of Semiconductor Devices* remains the standard reference work on the fundamental physics and operational characteristics of all major bipolar, unipolar, special microwave, and optoelectronic devices. This fully updated and expanded edition includes approximately 1,000 references to original research papers and review articles, more than 650 high-quality technical illustrations, and over two dozen tables of material parameters. Divided into five parts, the text first provides a summary of semiconductor properties, covering energy band, carrier concentration, and transport properties. The second part surveys the basic building blocks of semiconductor devices, including p-n junctions, metal-semiconductor contacts, and metal-insulator-semiconductor (MIS) capacitors. Part III examines bipolar transistors, MOSFETs (MOS field-effect transistors), and other field-effect transistors such as JFETs (junction field-effect transistors) and MESFETs (metal-semiconductor field-effect transistors). Part IV focuses on negative-resistance and power devices. The book concludes with coverage of photonic devices and sensors, including light-emitting diodes (LEDs), solar cells, and various photodetectors and semiconductor sensors. This classic volume, the standard textbook and reference in the field of semiconductor devices: Provides the practical foundation necessary for understanding the devices currently in use and evaluating the performance and limitations of future devices Offers completely updated and revised information that reflects advances in device concepts, performance, and application Features discussions of topics of contemporary interest, such as applications of photonic devices that convert optical energy

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Physics of semiconductor devices Michael Shur,1990

Best of Soviet Semiconductor Physics and Technology, 1989-1990 Mikhail Efimovich Levinshtein,1995 Each year a large number of first rate articles on the physics and technology of semiconductor devices, written by Soviet experts in the field, are published. However, due to the lack of exchange and personal contact, most of these, unfortunately, are neglected by many scientists from the United States, Japan as well as Western Europe. Consequently, many important developments in semiconductor physics are missed by the Western world. This book is a serious attempt to bridge the gap between the Soviet and Western scientific communities. Most of all, it is an effort towards facilitating the communication and sharing of knowledge amongst people from different parts of the world. Ultimately, the aim is to contribute towards the building of a better world for all – one where the knowledge of advanced technology and scientific discoveries is used to improve the quality of life and not the pursuit of selfish mutually destructive behavior. For those in the field who wish to partake in this exchange of knowledge and as a gesture of support for their Soviet counterparts, the reading of this book provides the first step.

Physics of Semiconductor Devices S. M. Sze,1981-09-30 Semiconductor physics; Bipolar devices; Unipolar devices; Special microwave devices; Photonic devices; International system of units; Unit prefixes; Greek alphabet; Physical constants; Lattice constants; Properties of important semiconductors; Properties of Ge, Si, and GaAs at 300K; Properties of SiO₂ and Si₃N₄ at 300K.

Physics of Semiconductor Devices Dilip K Roy,2004

Advanced Semiconductor Devices Michael S. Shur,Paul A. Maki,James Kolodzey,2007 This volume covers five emerging areas of advanced device technology: wide band gap devices, terahertz and millimeter waves, nanometer silicon and silicon-germanium devices, nanoelectronics and ballistic devices, and the characterization of advanced photonic and electronic devices. The papers by leading researchers in high speed and advanced electronic and photonic technology presented many firsts and breakthrough results, as has become a tradition with the Lester Eastman Conference, and will allow readers to obtain up-to-date information about emerging trends and future directions of these technologies. Key papers in each section present snap-shot and mini reviews of state-of-the-art and hot off the press results making the book required reading for engineers, scientists, and students working on advanced and high speed device technology.

The Physics of Semiconductor Devices D. A. Fraser,1979

Semiconductor Devices S. M. Sze,1985-05-14 This book is an introduction to the physical principles of modern semiconductor devices and their advanced fabrication technology. It begins with a brief historical review of major devices and key technologies and is then divided into three sections: semiconductor material properties, physics of semiconductor devices and processing technology to fabricate these semiconductor devices.--Publisher's description.

Introductory Semiconductor Device Physics Greg Parker,2004-09-30 Introduction to Semiconductor Device Physics is a popular and established text that offers a thorough introduction to the underlying physics of semiconductor devices. It begins with a review of basic solid state physics, then goes on to describe the properties of semiconductors including energy bands, the concept of effective mass, carrier concentr

Physics of Semiconductor Devices Simon Min Sze,1971-01-01

Physics and Technology of Semiconductor Devices Andrew S. Grove,1967-01-15 Provides a comprehensive treatment of semiconductor device physics and technology, with emphasis on modern planar silicon devices. Physical principles are explained by the use of simple physical models and illustrated by experimental measurements.

Handbook Series on Semiconductor Parameters M. Levinshtein,Michael Shur,1999 The Handbook Series on Semiconductor Parameters will consist of 5 volumes and will include data on the most popular semiconductor materials. These volumes aim to be a basic reference for scientists, engineers, students and technicians working in semiconductor materials and devices. The books have been kept compact but comprehensive and contain the values of frequently needed parameters selected and commented by leading experts on these materials. The first volume will include data on Si, Ge, diamond, GaAs, GaP, GaSb, InAs, InP, and InSb.

Semiconductor Devices Simon Min Sze,2002

Physics of Semiconductor Devices Simon M. Sze,1981

Physics of Semiconductors B. Sapoval,C. Hermann,1994-12-06 Based on courses given at the Ecole Polytechnique in France, this book covers not only the fundamental physics of semiconductors, but also discusses the operation of electronic and optical devices based on semiconductors. It is aimed at students with a good background in mathematics and physics, and is equally suited for graduate-level courses in condensed-matter physics as for self-study by engineers interested in a basic understanding of semiconductor devices.

The Properties, Physics, and Design of Semiconductor Devices John Northrup Shive,1959

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