

PRINCIPLES OF
**SEMICONDUCTOR
DEVICES**

SECOND EDITION



SIMA DIMITRIJEV

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Principles Of Semiconductor Devices

S. M. Sze

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Semiconductor Physics And Devices Donald Neamen, 2003 Neamen's Semiconductor Physics and Devices Third Edition deals with the electrical properties and characteristics of semiconductor materials and devices The goal of this book is to bring together quantum mechanics the quantum theory of solids semiconductor material physics and semiconductor device physics in a clear and understandable way

Principles of Semiconductor Devices Bart Jozef Van Zeghbroeck, 2011 The goal of this text is to provide the basic principles of common semiconductor devices with a special focus on Metal Oxide Semiconductor Field Effect Transistors MOSFETs

Semiconductor Devices Jasprit Singh, 2000-08-03 This introductory text designed for the first course in semiconductor physics presents a well balanced coverage of semiconductor physics and device operation and shows how devices are optimized for applications The text begins with an exploration of the basic physical processes upon which all semiconductor devices diodes transistor light emitters and detectors are based Topics such as bandstructure effective masses holes doping carrier transport and lifetimes are discussed Next the author focuses on the operation of the important semiconductor devices along with issues relating to the optimization of device performance Issues such as how doping device dimensions and parasitic effects influence device operation are also included The book is appropriate for the following courses Device Physics Semiconductor Devices Device Electronics Physics of Semiconductor Devices Integrated Circuit Devices Device Electronics Solid State Devices

Physical Principles of Semiconductor Devices Harry E. Talley, Don G. Daugherty, 1976

Semiconductor Materials B.G. Yacobi, 2003-01-31 The main objective of this book is to provide an introductory perspective of the basic principles of semiconductors being an integrated overview of the basic properties applications and characterization of semiconductors in a single volume This book is suitable for both undergraduate and graduate students and for researchers working in a wide variety of fields in physical and engineering sciences who require an introductory and concise description of the field of semiconductors

Operating Principles of Semiconductor Devices Shamus McNamara, 2016-08-08 Electronic components made out of semiconductors surround us in our daily lives Semiconductor devices are used in computers hand held devices and cell phones They are also used to control the power in refrigerators ovens and dish washers They are used extensively in the cars we drive the trains we ride in and the airplanes we fly in Semiconductor devices are also the principle component of solar panels on our homes In short semiconductor devices are present in most anything that pertains to energy communications or information This book is an introduction to the operating principles of these semiconductor devices This book is appropriate for undergraduate students in engineering

Semiconductor Physics And Devices Donald Neamen,2012 Provides a basis for understanding the characteristics operation and limitations of semiconductor devices This title deals with the electrical properties and characteristics of semiconductor materials and devices It intends to bring together quantum mechanics the quantum theory of solids and semiconductor material physics **Instructor's Solutions Manual for Principles of Semiconductor Devices,**

International Second Edition Sima Dimitrijevic,2012 *Semiconductor Physics and Devices* Donald A. Neamen,2012

PRINCIPLES OF SEMI-CONDUCTOR DEVICE OPERATION A.K. JONSCHER, PH.D.,1960 **Fundamentals of Semiconductor Physics and Devices** ,1997 This book is an introduction to the principles of semiconductor physics linking its scientific aspects with practical applications It is addressed to both readers who wish to learn semiconductor physics and those seeking to understand semiconductor devices It is particularly well suited for those who want to do both *Nitride Semiconductor Devices* Joachim Piprek,2007-04-09 This is the first book to be published on physical principles mathematical models and practical simulation of GaN based devices Gallium nitride and its related compounds enable the fabrication of highly efficient light emitting diodes and lasers for a broad spectrum of wavelengths ranging from red through yellow and green to blue and ultraviolet Since the breakthrough demonstration of blue laser diodes by Shuji Nakamura in 1995 this field has experienced tremendous growth worldwide Various applications can be seen in our everyday life from green traffic lights to full color outdoor displays to high definition DVD players In recent years nitride device modeling and simulation has gained importance and advanced software tools are emerging Similar developments occurred in the past with other semiconductors such as silicon where computer simulation is now an integral part of device development and fabrication This book presents a review of modern device concepts and models written by leading researchers in the field It is intended for scientists and device engineers who are interested in employing computer simulation for nitride device design and analysis

Principles of Semiconductor Device Operation Andrzej K. Jonscher,1960 **Principles of the Physics of Semiconductor Devices** I.A. Fedotov,1968 **Principles Of Semiconductor Devices, Intr'l/e** Sima Dimitrijevic,2011-10-01 **Solutions Manual for Principles of Semiconductor Devices** Sima Dimitrijevic,2011-03 **Principles and Applications of Semiconductor Device Modeling** Douglas J. Hamilton,F. A. Lindholm,Alan Howard Marshak,1971

Modern Semiconductor Device Physics S. M. Sze,1998 An in depth up to date presentation of the physics and operational principles of all modern semiconductor devices The companion volume to Dr Sze s classic *Physics of Semiconductor Devices* *Modern Semiconductor Device Physics* covers all the significant advances in the field over the past decade To provide the most authoritative state of the art information on this rapidly developing technology Dr Sze has gathered the contributions of world renowned experts in each area Principal topics include bipolar transistors compound semiconductor field effect transistors MOSFET and related devices power devices quantum effect and hot electron devices active microwave diodes high speed photonic devices and solar cells Supported by hundreds of illustrations and references and a problem set at the

end of each chapter Modern Semiconductor Device Physics is the essential text reference for electrical engineers physicists material scientists and graduate students actively working in microelectronics and related fields **SEMICONDUCTOR DEVICES: PHYSICS AND TECHNOLOGY, 2ND ED** S.M.Sze,2008-06 Market_Desc Electrical Engineers Scientists Special Features Provides strong coverage of all key semiconductor devices Includes basic physics and material properties of key semiconductors Covers all important processing technologies About The Book 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

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