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Semiconductor Physics and Devices brings together the fundamental physics, semiconductor material physics, and semiconductor device physics required to understand semiconductor device characteristics, operation, and limitations. It covers the three basic types of transistors (bipolar, JFET, and MOSFET) and includes discussions about processing techniques such as diffusion and ion implantation. The book features important learning tools such as chapter preview sections, chapter summary and review sections, extensive examples, chapter glossaries, many problems, chapter reading lists, and an appendix with answers to selected problems.

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An Introduction to Semiconductor Devices by Donald Neamen provides an understanding of the characteristics, operations and limitations of semiconductor devices. In order to provide this understanding, the book brings together the fundamental physics of the semiconductor material and the semiconductor device physics. This new text provides an accessible and modern presentation of material. Quantum mechanic material is minimal, and the most advanced material is designated with an icon. This modern approach means that coverage of the MOS transistor preceeds the material on the bipolar transistor, which reflects the dominance of MOS technology in today's world. Excellent pedagogy is present throughout the book in the form of interesting chapters openers, worked examples, a variety of exercises, key terms, and end of chapter problems.

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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.

This book covers the physics of semiconductors on an introductory level, assuming that the reader already has some knowledge of condensed matter physics. Crystal structure, band structure, carrier transport, phonons, scattering processes and optical properties are presented for typical semiconductors such as silicon, but III-V and II-VI compounds are also included. In view of the increasing importance of wide-gap semiconductors, the electronic and optical properties of these materials are dealt with too.

This book is unique in describing the historical development of semiconductor devices and their applications to human needs. It describes these developments in human terms and can be enjoyed by students of physics, electrical engineering, and materials science as well as by a wide range of scientists from other disciplines.