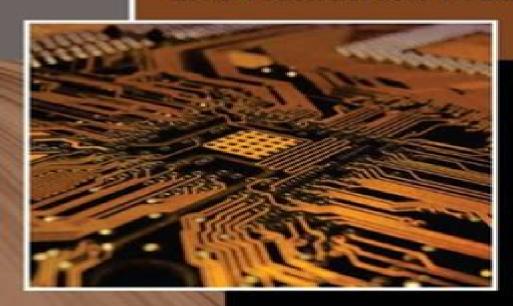


Semiconductor Device Fundamentals

with Computer-Based Exercises and Homework Problems



Robert F. Pierret

Semiconductor Device Fundamentals

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material Aimed at the undergraduate Neamen keeps coverage of quantum mechanics to a minimum and labels the most advanced material as optional MOS transistors are covered before bipolar transistors to reflect the dominance of MOS Introduction to Semiconductor Devices Kevin F. Brennan, 2005-02-03 From coverage in today s world BOOK JACKET semiconductor fundamentals to semiconductor devices used in the telecommunications and computing industries this 2005 book provides a solid grounding in the most important devices used in the hottest areas of electronic engineering The book includes coverage of future approaches to computing hardware and RF power amplifiers and explains how emerging trends and system demands of computing and telecommunications systems influence the choice design and operation of semiconductors Next the field effect devices are described including MODFETs and MOSFETs Short channel effects and the challenges faced by continuing miniaturisation are then addressed The rest of the book discusses the structure behaviour and operating requirements of semiconductor devices used in lightwave and wireless telecommunications systems This is both an excellent senior graduate text and a valuable reference for engineers and researchers in the field **Fundamentals** of Semiconductor Devices Betty L. Anderson, 2017 Fundamentals of Power Semiconductor Devices B. Jayant Baliga, 2018-09-28 Fundamentals of Power Semiconductor Devices provides an in depth treatment of the physics of operation of power semiconductor devices that are commonly used by the power electronics industry Analytical models for explaining the operation of all power semiconductor devices are shown The treatment here focuses on silicon devices but includes the unique attributes and design requirements for emerging silicon carbide devices. The book will appeal to practicing engineers in the power semiconductor device community Fundamentals of Semiconductor Devices Betty Lise Anderson, Richard L. Anderson, 2018 Provides a realistic and practical treatment of modern semiconductor devices In this book an understanding of the physical processes responsible for the electronic properties of semiconductor materials and devices is emphasized It helps the reader appreciate the underlying physics behind the equations derived and their range of applicability Fundamentals of Semiconductors Peter YU, Manuel Cardona, 2010-04-07 Excellent bridge between general solid state physics textbook and research articles packed with providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors. The most striking feature of the book is its modern outlook provides a wonderful foundation The most wonderful feature is its efficient style of exposition an excellent book Physics Today Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents This makes it an excellent textbook both for learners and for more experienced researchers wishing to check facts I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors I know of no better text I am sure most semiconductor physicists will find this book useful and I recommend it to them Contemporary Physics Offers much new material an extensive appendix about the important and by now well established deep center known as the DX center additional problems and the solutions to over fifty of the problems at the end of the various chapters

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part the material in parts 2 and 3 is applied to describe simple semiconductor devices including the MOSFET the Schottky and PN junction diodes and optoelectronic devices With a wide range of exercises this textbook is readily adoptable for an undergraduate course on semiconductor physics devices and with its emphasis on consolidating and applying knowledge of fundamental physics it will leave students in engineering and the physical sciences well prepared for a future where quantum industries proliferate

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