

Solid State Electronic Devices Ben G Streetman

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SOLID STATE ELECTRONIC DEVICES- PART-2 **What is SOLID-STATE ELECTRONICS? What does SOLID-STATE ELECTRONICS mean? SOLID STATE ELECTRONIC DEVICES-SESSION-2-PART-1 SOLID STATE ELECTRONIC DEVICES-SESSION-1 Solid State Electronic Devices ???? ????? ?**
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~~SOLID STATE ELECTRONIC DEVICES-SESSION 2 PART 4~~
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Electronic Devices Lecture-1: Introduction to the Course The smell of coffee - 6 Minute English *A simple guide to electronic components. Improving your memory - 6 Minute English* ~~2-Hours of English Conversation Practice - Improve Speaking Skills~~ **The power of crying - 6 Minute English** **Transistors, How do they work ? The perfect thing - The Storytellers Why do men want to be fathers? 6 Minute English** **Debating veganism: How to change someone's opinion - 6 Minute English** Basics of Electronics KTU - Electronic components, Resistors - Lecture 02 solid state electronic devices. lecture 2 PN Junction at thermal equilibrium. Dr. Abouelatta

solid state electronic devices. lecture 1 (revision). Dr. Abouelatta

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Lecture 0 - Electronic Devices- Course Content and Course Outcomes (AKTU) Introduction to Electronic Devices | III ECE | M1 | S1 Electronic Devices \u0026amp; Circuits | Introduction to Electronic Devices \u0026amp; Circuits Lecture - 1 Introduction on Solid State Devices **Shocking facts about electricity - 6 Minute English**

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Solid State Electronic Devices: International Edition by Ben G. Streetman. For undergraduate-level courses in Electronic Devices. THE most widely used introduction to solid state electronic devices text, this book is designed to help students gain a basic understanding of semiconductor devices and the physical operating principles behind them.

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Solid State Electronic Devices by Ben G. Streetman

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Solid State Electronic Devices (7th Edition) by Ben; Banerjee, Sanjay Streetman ISBN 13: 9780133356038 ISBN 10: 0133356035 Paperback; Pearson; ISBN-13: 978-0133356038

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For undergraduate electrical engineering students or for practicing engineers and scientists interested in updating their understanding of modern electronics One of the most widely used introductory books on semiconductor materials, physics, devices and technology, Solid State Electronic Devices aims to: 1) develop basic semiconductor physics concepts, so students can better understand current and future devices; and 2) provide a sound understanding of current semiconductor devices and technology, so that their applications to electronic and optoelectronic circuits and systems can be appreciated. Students are brought to a level of understanding that will enable them to read much of the current literature on new devices and applications. Teaching and Learning Experience This

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- *Provide a Sound Understanding of Current Semiconductor Devices: With this background, students will be able to see how their applications to electronic and optoelectronic circuits and systems are meaningful.
- *Incorporate the Basics of Semiconductor Materials and Conduction Processes in Solids: Most of the commonly used semiconductor terms and concepts are introduced and related to a broad range of devices.
- *Develop Basic Semiconductor Physics Concepts: With this background, students will be better able to understand current and future devices.

This book is designed to help readers gain a basic understanding of semiconductor devices and the physical operating principles behind them. This two-fold approach 1) provides the user with a sound understanding of existing devices, and 2) helps them develop the basic tools with which they can later learn about applications and the latest devices. The piece provides one of the most comprehensive treatments of all the important semiconductor devices, and reflects the most current trends in the technology and theoretical understanding of the devices.

FEATURES/BENEFITS

- *NEW--Thoroughly updated to reflect the most current trends in the technology and theoretical understanding of devices.
- *NEW--Expanded description of silicon Czochralski growth, wafer production, and vapor phase epitaxy (Ch. 1).
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Effect Transistors (Ch. 6)--Both in the underlying theory as well as discussion of a variety of short channel, high field and hot carrier effects in scaled, ultra-small MOSFETs. Includes extensive discussions of the current-voltage and capacitance-voltage characteristics of these devices--and the information that can be gleaned from such measurements. *NEW--Updated chapter on Bipolar Junction Transistors (BJTs) (Ch. 7)--To reflect current technology. Describes higher-order effects (including the Kirk effect and Webster effect); discusses the Gummel-Poon model (which is more elaborate and physically more accurate than the Ebers-Moll model); and updates the fabrication aspects of BJTs. *NEW--Consolidated coverage of optoelectronic devices in a single chapter (Ch. 8)--Brings the discussion of semiconductor lasers into the same chapter as LEDs and detectors *Reflects the growing importance of optoelectronics. *NEW--Updated coverage of integrated circuits (Ch. concerted shift to CMOS applications, such as logic and memory integrated circuits. *NEW--A section on the insulated gate bipolar transistor (Ch. 11)--A device that is gradually supplanting the semiconductor-controlled rectifier. *NEW--Real data--Wherever feasible, replaces idealized current-voltage and capacitance-voltage plots with real data.

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program will provide a better teaching and learning experience—for you and your students. It will help: Provide a Sound Understanding of Current Semiconductor Devices: With this background, students will be able to see how their applications to electronic and optoelectronic circuits and systems are meaningful. Incorporate the Basics of Semiconductor Materials and Conduction Processes in Solids: Most of the commonly used semiconductor terms and concepts are introduced and related to a broad range of devices. Develop Basic Semiconductor Physics Concepts: With this background, students will be better able to understand current and future devices.

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Semiconductor Materials presents physico-chemical, electronic, electrical, elastic, mechanical, magnetic, optical, and other properties of a vast group of elemental, binary, and ternary inorganic semiconductors and their solid solutions. It also discusses the properties of organic semiconductors. Descriptions are given of the most commonly used semiconductor devices—charge-coupled devices, field-effect transistors, unijunction transistors, thyristors, Zener and avalanche diodes, and photodiodes and lasers. The current trend of transitioning from silicon technology to gallium arsenide technology in field-effect-based electronic devices is a

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special feature that is also covered. More than 300 figures and 100 tables highlight discussions in the text, and more than 2,000 references guide you to further sources on specific topics.

Semiconductor Materials is a relatively compact book containing vast information on semiconductor material properties. Readers can compare results of the property measurements that have been reported by different authors and critically compare the data using the reference information contained in the book. Engineers who design and improve semiconductor devices, researchers in physics and chemistry, and students of materials science and electronics will find this a valuable guide.

Market_Desc: · Graduate and Advanced Undergraduate Students of Electrical Engineering
About The Book: This comprehensive introduction to the elementary theory and properties of semiconductors describes the basic physics of semiconductor materials and technologies for fabrication of semiconductor devices. Addresses approaches to modeling and provides details of measurement techniques. It also includes numerous illustrative examples and graded problems.

The second edition of Solid State Electronic Devices serves as a textbook for an introductory course on solid state electronic devices.

Modern Semiconductor Devices for Integrated Circuits, First Edition introduces readers to the world of modern semiconductor devices with an emphasis on integrated circuit applications. **KEY TOPICS:** Electrons and Holes in Semiconductors; Motion and Recombination of Electrons and Holes; Device Fabrication Technology; PN and Metal–Semiconductor Junctions; MOS Capacitor; MOS Transistor; MOSFETs in ICs—Scaling, Leakage, and Other Topics; Bipolar Transistor. **MARKET:** Written by an

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experienced teacher, researcher, and expert in industry practices, this succinct and forward-looking text is appropriate for anyone interested in semiconductor devices for integrated circuits, and serves as a suitable reference text for practicing engineers.

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