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Full Title: Modern Semiconductor Devices for Integrated Circuits;
Edition: 1st edition; ISBN-13: 978-0136085256; Format: Hardback;
Publisher: Pearson (3/22/2009) Copyright: 2010; Dimensions: 7.2 x 9.2
x 0.7 inches; Weight: 1.55lbs

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Electrons and Holes in Semiconductors CHAPTER OBJECTIVES This chapter provides the basic concepts and terminology for understanding semiconductors. Of particular importance are the concepts of energy band, the two kinds of electrical charge carriers called electrons and holes, and how the carrier concentrations can be controlled with the addition of dopants.

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A detailed, modern introduction to semiconductors made in silicon and III-V compounds. This book develops the device physics of pn junctions, bipolar transistors, Schottky barriers, MOS capacitors, and MOS field-effect transistors (MOSFETs). Basic concepts from quantum and statistical mechanics are used to describe electrons and holes in semiconductors. Figures and examples based on realistic device parameters are used to illustrate important concepts. The book uses spice tools to analyze complex devices. Design specifications are stressed in building or modeling complicated semiconductor devices.

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level course by selecting the front sections of selected chapters (e.g. 1-9). It can also be used in a two-semester senior-level or a graduate-level course by taking advantage of the more advanced sections.

The awaited revision of *Semiconductor Devices: Physics and Technology* offers more than 50% new or revised material that reflects a multitude of important discoveries and advances in device physics and integrated circuit processing. Offering a basic introduction to physical principles of modern semiconductor devices and their advanced fabrication technology, the third edition presents students with theoretical and practical aspects of every step in device characterizations and fabrication, with an emphasis on integrated circuits. Divided into three parts, this text covers the basic properties of semiconductor materials, emphasizing silicon and gallium arsenide; the physics and characteristics of semiconductor devices bipolar, unipolar special microwave and photonic devices; and the latest processing technologies, from crystal growth to lithographic pattern transfer.

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