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Thursday, February 12, 2009 10:14 AM 1 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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AlGaAs window layer on GaAs passivates the surface states and thereby increases the photogeneration efficiency
A heterojunction solar cell between two different bandgap semiconductors (GaAs and AlGaAs)
(a) n-p AlGaAs/GaAs 2 eV E_c E_v E_c E_v (b) 1.4 eV

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Because of the continuous evolution of integrated circuit manufacturing (ICM) and design for manufacturability (DfM), most books on the subject are obsolete before they even go to press. That ' s why the field requires a reference that takes the focus off of numbers and concentrates more on larger economic concepts than on technical details. Semiconductors: Integrated Circuit Design for Manufacturability covers the gradual evolution of integrated circuit design (ICD) as a basis to propose strategies for improving return-on-investment (ROI) for ICD in manufacturing. Where most books put the spotlight on detailed

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engineering enhancements and their implications for device functionality, in contrast, this one offers, among other things, crucial, valuable historical background and roadmapping, all illustrated with examples. Presents actual test cases that illustrate product challenges, examine possible solution strategies, and demonstrate how to select and implement the right one This book shows that DfM is a powerful generic engineering concept with potential extending beyond its usual application in automated layout enhancements centered on proximity correction and pattern density. This material explores the concept of ICD for production by breaking down its major steps: product definition, design, layout, and manufacturing. Averting extended discussion of technology, techniques, or specific device dimensions, the author also avoids the clumsy chapter architecture that can hinder other books on this subject. The result is an extremely functional, systematic presentation that simplifies existing approaches to DfM, outlining a clear set of criteria to help readers assess reliability, functionality, and yield. With careful consideration of the economic and technical trade-offs involved in ICD for manufacturing, this reference addresses techniques for physical, electrical, and logical design, keeping coverage fresh and concise for the designers, manufacturers, and researchers defining product architecture and research programs.

For upper level and graduate level Electrical and Computer Engineering courses in Integrated Circuit Design as well as professional circuit designers, engineers and researchers working in portable wireless communications hardware. This book presents the fundamentals of Complementary Metal Oxide Semiconductor (CMOS) and Bipolar compatible Complementary Metal Oxide Semiconductor (BiCMOS) technology, as well as the latest technological advances in the field. It discusses the concepts and techniques of new integrated circuit design for building high performance and low power circuits and systems for current and future very-large-scale-integration (VLSI) and giga-scale-integration (GSI) applications.

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CMOS/BiCMOS ULSI: Low-Voltage Low-Power is an essential resource for every professional moving toward lower voltage, lower power, and higher performance VLSI circuits and subsystems design.

Aimed primarily at the undergraduate students pursuing courses in semiconductor physics and semiconductor devices, this text emphasizes the physical understanding of the underlying principles of the subject. Since engineers use semiconductor devices as circuit elements, device models commonly used in the circuit simulators, e.g. SPICE, have been discussed in detail. Advanced topics such as lasers, heterojunction bipolar transistors, second order effects in BJTs, and MOSFETs are also covered. With such in-depth coverage and a practical approach, practising engineers and PG students can also use this book as a ready reference.

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