Device Electronics For Integrated Circuits

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An integrated circuit or monolithic integrated circuit (also referred to as an IC, a chip, or a microchip) is a set of electronic circuits on one small flat piece (or "chip") of semiconductor material that is normally silicon.The integration of large numbers of tiny MOS transistors into a small chip results in circuits that are orders of magnitude smaller, faster, and less expensive than those ...

Integrated circuit - Wikipedia

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Hall-effect, magnetic sensing, integrated circuits are highly successful examples of integrated sensors, that is, integrated circuits having intentional sensitivity to nonelectrical signals. This sensitivity is achieved by incorporating sensing elements on a silicon chip together with bias, amplifying, and signal-processing circuitry.

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Commonly, electronic devices contain circuitry consisting of active semiconductors supplemented with passive elements; such a circuit is described as an electronic circuit. Electronics deals with electrical circuits that involve active electrical components such as vacuum tubes, transistors, diodes, integrated circuits, optoelectronics, and ...

Electronics - Wikipedia
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Device Electronics For Integrated Circuits
Modern device electronics: semiconductor fundamentals including crystals and energy bands, charge carriers (electrons and holes), doping, and transport, (drift and diffusion); unipolar devices with the MOS field effect transistor as a logic device and circuit considerations; basic concepts of generation-recombination and the P-N junction as capacitors and current rectifier with applications in ...

Focusing specifically on silicon devices, the Third Edition of Device Electronics for Integrated Circuits takes students in integrated-circuits courses from fundamental physics to detailed device operation. Because the book focuses primarily on silicon devices, each topic can include more depth, and extensive worked examples and practice problems ensure that students understand the details.

This book provides all the required information for a course in modern device electronics taken by undergraduate electrical engineers. It offers coverage of silicon technology, several topics in basic semiconductor physics, and Hall-effect sensors. The chapters on MOSFET focus on mobility variations and threshold-voltage dependence. Additional topics include VLSI devices, short channel effects, and computer modeling.· Semiconductor Electronics· Silicon Technology· Metal-Semiconductor Contacts· pn Junctions· Currents in pn Junctions· Bipolar Transistors I: Basic Properties· Bipolar Transistors II: Limitations and Models· Properties of the Metal-Oxide-Silicon System· Mos Field-Effect Transistors I: Physical Effects and Models· Mos Field-Effect Transistors II: High-Field Effects

Focusing specifically on silicon devices, the Third Edition of Device Electronics for Integrated Circuits takes students in integrated-circuits courses from fundamental physics to detailed device operation. Because the book focuses primarily on silicon devices, each topic can include more depth, and extensive worked examples and practice problems ensure that students understand the details.

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This Second Edition provides all the required information for a course in modern device electronics taken by undergraduate electrical engineers. Offers major new coverage of silicon technology, adds several topics in basic semiconductor physics not treated previously, and introduces Hall-effect sensors. The chapters on MOSFET have been entirely updated, focusing on mobility variations and threshold-voltage dependence. Additional topics include VLSI devices, short channel effects, and computer modeling.

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

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 provides a detailed treatment of radiation effects in electronic devices, including effects at the material, device, and circuit levels. The emphasis

is on transient effects caused by single ionizing particles (single-event effects and soft errors) and effects produced by the cumulative energy deposited by the radiation (total ionizing dose effects). Bipolar (Si and SiGe), metal-oxide-semiconductor (MOS), and compound semi-conductor technologies are discussed. In addition to considering the specific issues associated with high-performance devices and technologies, the book includes the background material necessary for understanding radiation effects at a more general level.