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Device Electronics for Integrated Circuits: Muller ...
This is for the 1986 2nd edition, Device Electronics for Integrated Circuits, ISBN: 0471887587. I have not looked at the recent 3ed. The fundamentals in this "1980's vintage" 2ed. text haven't changed, and therefore it is still relevant.

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Integrated circuit - Wikipedia
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Device Electronics for Integrated Circuits 3rd edition ...
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.

Device Electronics for Integrated Circuits (1 ...
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 ...

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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 book, now in its Second Edition, provides a basis for understanding the characteristics, working principle, operation and limitations of semi-conductor devices. In this new edition, many sections are re-written to present the concepts related to device physics in more clearer and easy to understand manner. The primary objective of this textbook is to provide all the relevant topics on the semiconductor materials and semiconductor devices in a single volume. It includes enough mathematical expressions to provide a good foundation for the basic understanding of the semiconductor devices. It covers not only the state-of-the-art devices but also future approaches that go beyond the current technology. Designed primarily as a text for the postgraduate students of physics and electronics, the book would also be useful for the undergraduate students of electronics and electrical engineering, and electronics and communi-cation engineering. Highlights of the Book : Includes topics on the latest technologies Covers important points in each chapter Provides a number of solved and unsolved problems along with explanation type questions Emphasizes on the mathematical derivation

Physics of Semiconductor Devices covers both basic classic topics such as energy band theory and the gradual-channel model of the MOSFET as well as advanced concepts and devices such as MOSFET short-channel effects, low-dimensional devices and single-electron transistors. Concepts are introduced to the reader in a simple way, often using comparisons to everyday-life experiences such as simple fluid mechanics. They are then explained in depth and mathematical developments are fully described. Physics of Semiconductor Devices contains a list of problems that can be used as homework assignments or can be solved in class to exemplify the theory. Many of these problems make use of Matlab and are aimed at illustrating theoretical concepts in a graphical manner.

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