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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 ...

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required information for a course in modern device electronics taken by undergraduate electrical engineers. Offers coverage of silicon technology, several topics in basic semiconductor physics, and Hall-effect sensors.

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Electronics - Wikipedia

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Device Electronics For Integrated  
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Modern device electronics:  
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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



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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

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This Second Edition provides all the required information for a course in modern device electronics taken by undergraduate electrical

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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.

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

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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.

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

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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.

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