



Devices for Integrated Circuits: Silicon and III-V Compound Semiconductors

H. Craig Casey

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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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