

## An Introduction to the Physics of Semiconductor Devices (The Oxford Series in Electrical and Computer Engineering)

David J. Roulston



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*An Introduction to the Physics of Semiconductor Devices* provides a thorough yet concise introduction to the physical operation of semiconductor devices including diodes, bipolar transistors, MOS field-effect transistors, and junction field-effect transistors, as well as an overview of numerous other devices. Ideal for second- and third-year students in electrical engineering, electronics, and physics, the text is self-contained and includes enough background physics to be accessible to students with no previous exposure to semiconductor devices. The author covers only essential topics, yet provides an in-depth, authoritative treatment of the subject. Taking a novel approach, he keeps the mathematics simple and emphasizes the basic physical operation of each device, making it easier for students to grasp the underlying physical principles. Numerous worked examples facilitate student self-study and helpful appendices contain additional material that advanced students may consult for further background. The text is accompanied by a CD-ROM featuring Student BIPOLE (with MOS Option), a user-friendly software program that allows students to study the important physical characteristics of diodes, BJTs, and MOSFETs, enabling them to step beyond the idealized world and look at real devices.

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