

# Advanced Semiconductor Fundamentals Modular Series on Solid State Devices

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## BOOK DETAILS

- Author : Robert F. Pierret
- Pages : 228 Pages
- Publisher : Prentice Hall
- Language : English
- ISBN : 0201053381

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## BOOK SYNOPSIS

The result of the nano education project run by the Korean Nano Technology Initiative, this has been recommended for use as official textbook by the Korean Nanotechnology Research Society. The author is highly experienced in teaching both physics and engineering in academia and industry, and naturally adopts an interdisciplinary approach here. He is short on formulations but long on applications, allowing students to understand the essential workings of quantum mechanics without spending too much time covering the wide realms of physics. He takes care to provide sufficient technical background and motivation for students to pursue further studies of advanced quantum mechanics and stresses the importance of translating quantum insights into useful and tangible innovations and inventions. As such, this is the only work to cover semiconductor nanotechnology from the perspective of introductory quantum mechanics, with applications including mainstream semiconductor technologies as well as (nano)devices, ranging from photodetectors, laser diodes, and solar cells to transistors and Schottky contacts. Problems are also provided to test the readers understanding and supplementary material available includes working presentation files, solutions and instructors manuals.

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