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This book will be useful to solid-state scientists, device engineers, and students involved in semiconductor design and technology. It provides a lucid account of band structure, density of states, charge transport, energy transport, and optical processes, along with a detailed description of many devices. It includes sections on superlattices and quantum well structures, the effects of deep-level impurities on transport, and the quantum Hall effect. This 8th edition has been revised and updated, including several new sections.

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This text brings together traditional solid-state approaches from the 20th century with developments of the early part of the 21st century, to reach an understanding of semiconductor physics in its multifaceted forms. It reveals how an understanding of what happens within the material can lead to insights into what happens in its use.

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