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Quantum Heterostructures: Microelectronics and Optoelectronics (Paperback)

By Vladimir V. Mitin, Viatcheslav Kochelap, Michael A. Stroscio

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2015. Paperback. Condition: New. New.. Language: English . Brand New Book ***** Print on Demand *****.Quantum Heterostructures provides a detailed description of the key physical and engineering principles of quantum semiconductor heterostructures. Blending important concepts from physics, materials science, and electrical engineering, it also explains clearly the behaviour and operating features of modern microelectronic and optoelectronic devices. The authors begin by outlining the trends that have driven development in this field, most importantly the need for high-performance devices in computer, information, and communications technologies. They then describe the basics of quantum nanoelectronics, including various transport mechanisms. In the latter part of the book, they cover novel microelectronic devices, and optical devices based on quantum heterostructures. The book contains many homework problems and is suitable as a textbook for undergraduate and graduate courses in electrical engineering, physics, or materials science. It will also be of great interest to those involved in research or development in microelectronic or optoelectronic devices.



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