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| Sommario/riassunto | Semiconductors play a major role in modern microtechnology, especially in microelectronics. Since the dimensions of new microelectronic components, e.g. computer chips, now reach nanometer size, semiconductor research moves from microtechnology to nanotechnology.; An understanding of the semiconductor physics involved in this new technology is of great importance for every student in engineering, especially electrical engineering, microsystem technology and physics.; This textbook emphasizes a system-oriented view of semiconductor physics for applications in microsystem technology. While existing books only cover electronic device physics and are mainly written for physics students, this text gives a more hands-on approach to semiconductor physics and so avoids overloading engineering students with mathematical formulas not essential for their studies. |

