



Semiconductor Transport

David K. Ferry

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The information revolution would have been radically different, or impossible, without the use of the materials known generically as semiconductors. The properties of these materials, particularly the potential for doping with impurities to create transistors and diodes and controlling the local potential by gates, are essential for microelectronics. Semiconductor Transport is an introductory text on electron transport in semiconductor materials and is written for advanced undergraduates and graduate students. The book provides a thorough treatment of modern approaches to the transport properties of semiconductors and their calculation. It also introduces those aspects of solid state physics, which are vitally important for understanding transport in them. Key features: * suitable for advanced undergraduates and postgraduate students in electrical engineering degree courses and existing professional for use as a sourcebook * gives a thorough treatment of modern approaches to transport in semiconductors * includes a problem section at the back of the book to aid student learning

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