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David Ferry, Stephen Marshall Goodnick

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Transport in Nanostructures reviews the results of experimental research into mesoscopic devices, and develops a detailed theoretical framework for understanding their behavior. The authors discuss the key observable phenomena in nanostructures, including phase interference and weak localization. They then describe quantum confined systems, transmission in nanostructures, quantum dots and single electron phenomena. Separate chapters cover interference in diffusive transport and temperature decay of fluctuations, and a chapter on nonequilibrium transport and nanodevices concludes the book. Throughout, Ferry and Goodnick interweave experimental results with the appropriate theoretical formalism. Profusely illustrated, the book will be of great interest to graduate students taking courses in mesoscopic physics or nanoelectronics, as well as to researchers working on semiconductor nanostructures or the development of new ultrasmall devices.

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