



Electronic Quantum Transport in Mesoscopic Semiconductor Structures

By Thomas Ihn

Springer Dez 2011, 2011. Taschenbuch. Book Condition: Neu. 235x155x15 mm. Neuware - This book treats three topics of electronic quantum transport in mesoscopic semiconductor structures: the conductance in strongly interacting and disordered two-dimensional systems and the metal insulator transition, electron transport through quantum dots and quantum rings in the Coulomb-blockade regime, and scanning probe experiments on semiconductor nanostructures at cryogenic temperatures. In addition it gives a brief historical account of electron transport from Ohm's law through transport in semiconductor nanostructures, and a review of cryogenic scanning probe techniques applied to semiconductor nanostructures. Both graduate students and researchers in the field of mesoscopic semiconductors or in semiconductor nanostructures will find this book useful. 288 pp. Englisch.



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