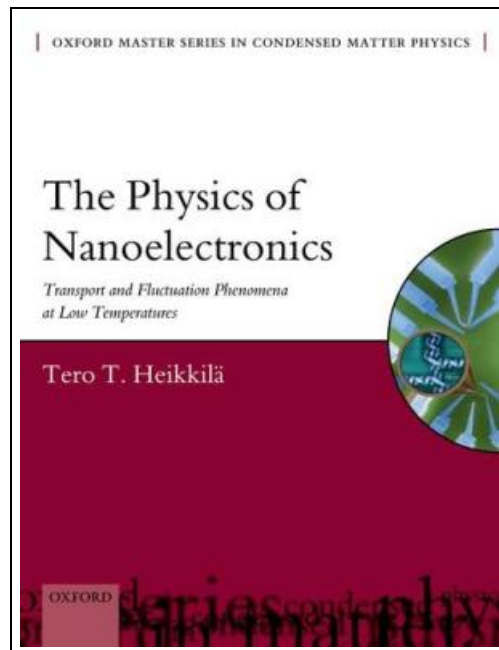


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Reviews



The publication is great and fantastic. It can be filled with knowledge and wisdom You wont truly feel monotony at at any moment of your time (that's what catalogues are for about if you ask me).
(Dr. Marcos Grimes III)

THE PHYSICS OF NANO ELECTRONICS: TRANSPORT AND FLUCTUATION PHENOMENA AT LOW TEMPERATURES (PAPERBACK)



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Oxford University Press, United Kingdom, 2013. Paperback. Condition: New. Language: English . Brand New Book. Advances in nanotechnology have allowed physicists and engineers to miniaturize electronic structures to the limit where finite-size related phenomena start to impact their properties. This book discusses such phenomena and models made for their description. The book starts from the semiclassical description of nonequilibrium effects, details the scattering theory used for quantum transport calculations, and explains the main interference effects. It also describes how to treat fluctuations and correlations, how interactions affect transport through small islands, and how superconductivity modifies these effects. The last two chapters describe new emerging fields related with graphene and nanoelectromechanics. The focus of the book is on the phenomena rather than formalism, but the book still explains in detail the main models constructed for these phenomena. It also introduces a number of electronic devices, including the single-electron transistor, the superconducting tunnel junction refrigerator, and the superconducting quantum bit.

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