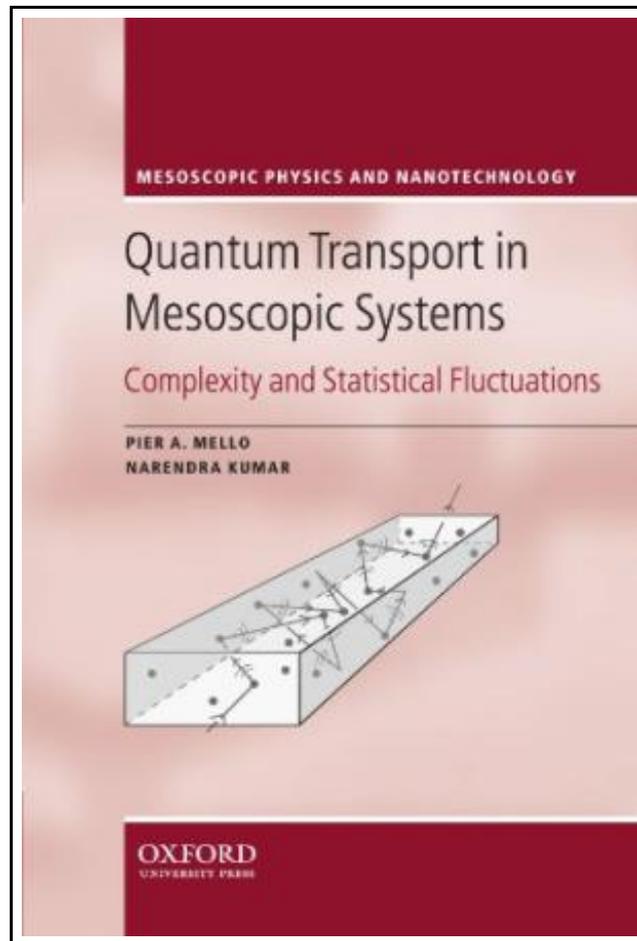# Quantum Transport in Mesoscopic Systems: Complexity and Statistical Fluctuations - A Maximum Entropy Viewpoint (Paperback)

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Reviews

Complete guide! Its such a excellent read through. It is full of wisdom and knowledge I am very happy to inform you that here is the very best pdf i have got study inside my very own daily life and might be he very best pdf for possibly.
(Mr. Ronaldo Kulas)

QUANTUM TRANSPORT IN MESOSCOPIC SYSTEMS: COMPLEXITY AND STATISTICAL FLUCTUATIONS - A MAXIMUM ENTROPY VIEWPOINT (PAPERBACK)

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Oxford University Press, United Kingdom, 2010. Paperback. Book Condition: New. Reissue. 230 x 154 mm. Language: English . Brand New Book. The aim of this book is to present a statistical theory of wave scattering by complex systems -systems which have a chaotic classical dynamics, as in the case of microwave cavities and quantum dots, or possess quenched randomness, as in the case of disordered conductors- with emphasis on mesoscopic fluctuations. The universal character of the statistical behavior of these phenomena is incorporated in a natural way by approaching the problem from a Maximum-Entropy viewpoint -Shannon s information entropy is maximized, subject to the symmetries and constraints that are physically relevant-within the powerful, non-perturbative Theory of Random Matrices. This is a distinctive feature of the present book that greatly motivated our writing it. Another reason is that it collects in one place the material and notions -derived from the published work of the authors in collaboration with several co-workers, as well as from the work of others- which are scattered through research journals and textbooks on the subject. To make the book self-contained, we present in Chapters 2 and 3 the quantum theory of scattering, set in the context of quasi-one-dimensional, multichannel systems, thus related directly to scattering problems in mesoscopic physics. Chapter 4 discusses the linear-response theory of quantum electronic transport, adapted to the context of mesoscopic systems. These chapters, together with Chapter 5 on the Maximum-Entropy Approach and Chapter 8 on weak localization, have been written in a pedagogical style, and can be used as part of a graduate course. Chapters 6 and 7 discuss the problem of electronic transport through classically chaotic cavities and quasi-one-dimensional disordered systems. There are many exercises, most of them worked out in detail, distributed throughout the book. This should help graduate...

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