



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

By Pier A. Mello, Narendra Kumar

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...



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