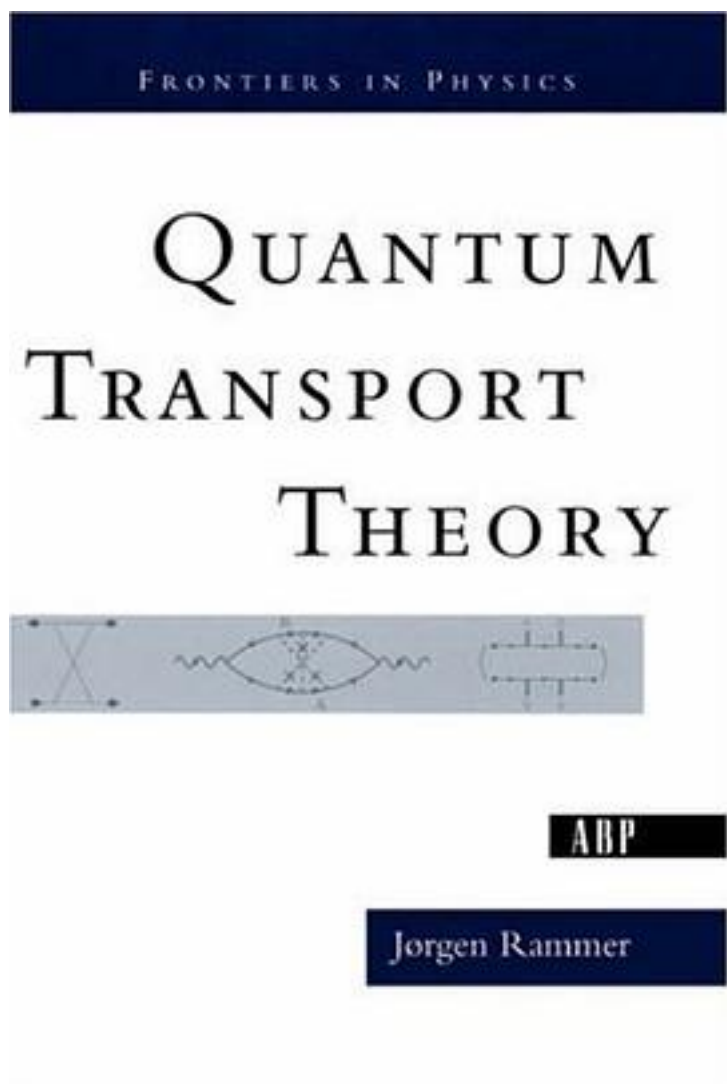


Quantum Transport Theory (Frontiers in Physics)



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出版者:Westview Press

出版时间:2004-09-03

装帧:Paperback

isbn:9780813342849

Quantum Transport Theory is a comprehensive account of recent achievements in the understanding of disordered conductors. Chapters cover the density matrix description of nonequilibrium statistical mechanics and newer topics in the field of condensed matter physics, including: weak localization; destruction of electronic phase coherence in disordered conductors; electron-electron and electron-phonon interaction in dirty metals; scaling theory of localization; the self-consistent theory of localization; and mesoscopic physics. The diagrammatic technique for systems out of equilibrium is developed systematically, and is used to study quantum kinetic equations and linear response theory.

作者介绍:

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标签

凝聚态物理

量子输运

物理

格林函数

凝聚态7

physics

CondensedMatter

评论

杂质散射部分写得极好，尤其是diffusion propagator和charge conservation (i.e. the

Ward identity)之间关系，以及weak localization部分，但是并不容易读懂，阅读第八章如果遇到困难建议去翻D. Vollhardt在1980年写的prb。

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书评

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