



Scattering Matrix Approach to Non-Stationary Quantum Transport

Michael V Moskalets

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The aim of this book is to introduce the basic elements of the scattering matrix approach to transport phenomena in dynamical quantum systems of non-interacting electrons. This approach admits a physically clear and transparent description of transport processes in dynamical mesoscopic systems promising basic elements of solid-state devices for quantum information processing. One of the key effects, the quantum pump effect, is considered in detail. In addition, the theory for a recently implemented new dynamical source -- injecting electrons with time delay much larger than the electron coherence time -- is offered. This theory provides a simple description of quantum circuits with such a single-particle source and shows in an unambiguous way that the tunability inherent to the dynamical systems leads to a number of unexpected but fundamental effects.

Readership: Physicists, chemists and electrical engineers who are interested in non-stationary transport phenomena in quantum systems.

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