

Quantum Transport

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A comprehensive introduction to the rapidly developing field of quantum transport for graduate students, researchers and professionals working in nanoscience. Quantum transport is a diverse field, sometimes combining seemingly contradicting concepts - quantum and classical, conduction and insulating - within a single nanodevice. Quantum transport is an essential and challenging part of nanoscience, and understanding its concepts and methods is vital to the successful fabrication of devices at the nanoscale. This textbook is a comprehensive introduction to the rapidly developing field of quantum transport. The authors present the comprehensive theoretical background, and explore the groundbreaking experiments that laid the foundations of the field. Ideal for graduate students, each section contains control questions and exercises to check readers' understanding of the topics covered. Its broad scope and in-depth analysis of selected topics will appeal to researchers and professionals working in nanoscience.

EAN/ISBN : 9780511537318 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Nazarov, Yuli V. - Blanter, Yaroslav M.

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