#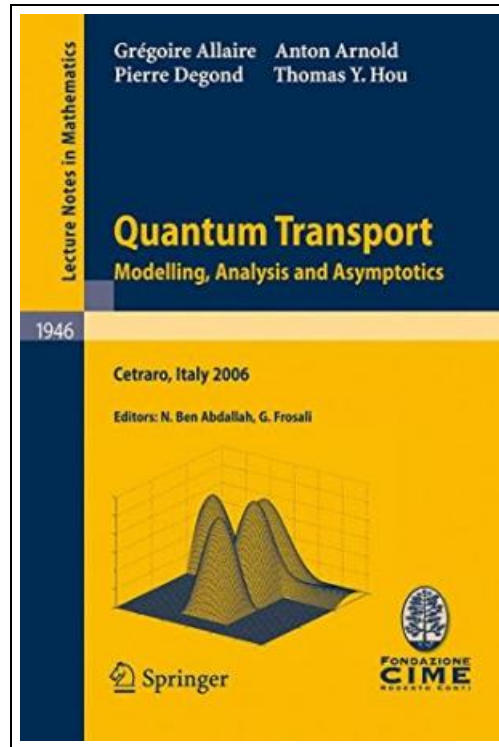 Quantum Transport: Modelling, Analysis and Asymptotics - Lectures Given at the C.I.M.E. Summer School Held in Cetraro, Italy, September 11 16, 2006

Grégoire Allaire   Anton Arnold
Pierre Degond   Thomas Y. Hou

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Springer. Paperback. Condition: New. 260 pages. Dimensions: 9.2in. x 6.1in. x 0.6in.Downscaling of semiconductor devices, which is now reaching the nanometer scale, makes it mandatory for us to understand the quantum phenomena - volvedinchargetransport. Indeed, fornanoscaledevices, thequantumnature of electrons cannot be neglected. In fact, it underlies the operation of an increasing number of devices. Unlike classical transport, the intuition of the physicistandtheengineerisbecominginsucientforpredictingthenatu reof device operation in the quantum contextthe need for suciently accurate and numerically tractable models represents an outstanding challenge in which applied mathematics can play an important role. TheCIMESessionQuantumTransport: Modelling, AnalysisandAsy- totics, which took place in Cetraro (Cosenza), Italy, from September 11 to September 16, 2006, was intended both to present an overview of up-to-date mathematical problems in this eld and to provide the audience with te- niques borrowed from other elds of application. It was attended by about 50 scientists and researchers, coming from d- ferent countries. The list of participants is included at the end of this book. The school was structured into four courses: Gr egoire Allaire (Ecole Polytechnique, Palaiseau, France) Periodic - mogeneization and Eective MassTheorems for theSchr odinger Equation. AntonArnold(TechnischeUniversit at, Vienna)MathematicalProperties of Quantum Evolution Equations. Pierre Degond (Universit e Paul Sabatier and CNRS, Toulouse, France) Quantum Hydrodynamic and Diusion Models Derived from the Entropy Principle. Thomas Yizhao Hou (Caltech, Los Angeles, USA) Multiscale Com- tations for Flow and Transport in Heterogeneous Media. This book contains the texts of the four series of lectures presented at the Summer School. Here follows a brief description of the subjects of these courses. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.

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