

THE IMA VOLUMES IN MATHEMATICS  
AND ITS APPLICATIONS

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Pierre Degond Irene M. Gamba  
Robert T. Glassey C. David Levermore  
Christian Ringhofer

# Dispersive Transport Equations and Multiscale Models



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# Dispersive Transport Equations And Multiscale Models

**Hussein Magdi Selim, Donald L. Sparks**

## **Dispersive Transport Equations And Multiscale Models:**

Dispersive Transport Equations and Multiscale Models Naoufel Ben-Abdallah, 2004 IMA Volumes 135 *Transport in Transition Regimes* and 136 *Dispersive Transport Equations and Multiscale Models* focus on the modeling of processes for which transport is one of the most complicated components This includes processes that involve a wide range of length scales over different spatio temporal regions of the problem ranging from the order of mean free paths to many times this scale Consequently effective modeling techniques require different transport models in each region The first issue is that of finding efficient simulations techniques since a fully resolved kinetic simulation is often impractical One therefore develops homogenization stochastic or moment based subgrid models Another issue is to quantify the discrepancy between macroscopic models and the underlying kinetic description especially when dispersive effects become macroscopic for example due to quantum effects in semiconductors and superfluids These two volumes address these questions in relation to a wide variety of application areas such as semiconductors plasmas fluids chemically reactive gases etc *Transport Equations for Semiconductors* Ansgar Jüngel, 2009-03-17 This volume presents a systematic and mathematically accurate description and derivation of transport equations in solid state physics in particular semiconductor devices *Transport in Transition Regimes* Ben Abdallah Naoufel, Anton Arnold, Pierre Degond, Irene M. Gamba, Robert T. Glassey, C. David Levermore, Christian Ringhofer, 2012-12-06 IMA Volumes 135 *Transport in Transition Regimes* and 136 *Dispersive Transport Equations and Multiscale Models* focus on the modeling of processes for which transport is one of the most complicated components This includes processes that involve a wide range of length scales over different spatio temporal regions of the problem ranging from the order of mean free paths to many times this scale Consequently effective modeling techniques require different transport models in each region The first issue is that of finding efficient simulations techniques since a fully resolved kinetic simulation is often impractical One therefore develops homogenization stochastic or moment based subgrid models Another issue is to quantify the discrepancy between macroscopic models and the underlying kinetic description especially when dispersive effects become macroscopic for example due to quantum effects in semiconductors and superfluids These two volumes address these questions in relation to a wide variety of application areas such as semiconductors plasmas fluids chemically reactive gases etc *Mathematical Reviews*, 2004 **The Handbook of Groundwater Engineering** John H. Cushman, Daniel M. Tartakovsky, 2016-11-25 This new edition adds several new chapters and is thoroughly updated to include data on new topics such as hydraulic fracturing CO2 sequestration sustainable groundwater management and more Providing a complete treatment of the theory and practice of groundwater engineering this new handbook also presents a current and detailed review of how to model the flow of water and the transport of contaminants both in the unsaturated and saturated zones covers the protection of groundwater and the remediation of contaminated groundwater **Frontiers in Network Physiology - Editor Selection** Plamen Ch. Ivanov, 2026-02-27

Network Physiology reveals how diverse physiological systems from molecules and cells to organs and whole body behavior interact as coordinated networks to generate distinct states and functions in health and disease This collection brings together cutting edge empirical and theoretical articles from *Frontiers in Network Physiology* the only journal dedicated to this emerging multidisciplinary field that map physiological systems interactions and networks across scales methods and modalities charting the foundations of the Human Physiome and the future of integrative physiology

**Rarefied Gas Dynamics** Andrew D. Ketsdever, E.P. Munz, 2003-05-19 The papers in these proceedings were peer reviewed The RGD Symposia are highly interdisciplinary and encompass all aspects of rarefaction and non equilibrium phenomena in gases Rarefied flow phenomena include the mechanics and physics of low density gases and the analysis of flows which take place on a spatial scale comparable to the mean free path of a gas Topics covered include Kinetic theory and transport theory numerical methods including direct simulation Monte Carlo and molecular dynamics gas surface phenomena nano and microscale flows molecular beams atom and molecular optics clusters and aerosols external flows including space and vacuum technologies plume flows hypersonic flows molecular collision dynamics relaxation processes ionized gas flows physics of the space environment plasma processing experimental techniques diagnostics including laser induced fluorescence and electron beams applications With the increase in space activities and microfabrication capabilities new themes have emerged including rarefied hypersonic flows non equilibrium gases plasma processing nano and micro scale flows at relatively high pressures along with parallel and hybrid computational developments Because the RGD Symposia are recognized as the principle forum for the presentation of recent advances in this field it is a must for engineers and scientists in a variety of specialties

**American Book Publishing Record**, 2004

**Laser and Plasma Applications in Materials Science** El-Hachemi Amara, Said Boudjemai, Djamila Doumaz, 2008-10-16 All papers were peer reviewed In the industry the laser is placed like a tool having shown its effectiveness from the point of view of the tasks execution speed the accuracy and the quality of the obtained result Beside the plasmas obtained by laser by discharge or the dusty plasmas are now intensively studied both by theoretical and experimental approaches since their applications are very promising in many fields The First International Conference on Laser and Plasma Applications in Materials Science LAPAMS 08 organized by the Centre de Développement des Technologies Avancées CDTA of Algiers Its objective was to present the state of the art the trends the fundamental aspects of the interaction between a laser beam and material and the modelling and simulation of laser and plasma for the applications The conference gathered 16 eminent invited speakers in different research fields related to laser and plasma technologies and applications These invited speakers known for their international notoriety were from Canada USA France United Kingdom Spain Italy South Africa and Algeria Beside about 120 scientists researchers engineers and students from ten countries of the African European and American continents have participated to the conference More than 100 contributions have been submitted and the accepted ones were selected by LAPAMS 08 scientific

committee Dissertation Abstracts International ,2008 **SSSA Special Publication Series** ,2001 **Physical and Chemical Processes of Water and Solute Transport/retention in Soils** Hussein Magdi Selim,Donald L. Sparks,2001 Transport and retention of water nutrients and inorganic and organic contaminants in the environment is greatly affected by physical and chemical processes in porous media such as soils To definitively understand these processes multiple scales ranging from the landscape to the molecular be investigated Topics include fractal and spatial heterogeneity molecular models in situ spectroscopic and microscopic techniques and inclusion of time dependent phenomena in predicting solute transport retention in soils Transport in Transition Regimes Naoufel Ben-Abdallah,2004 IMA Volumes 135 Transport in Transition Regimes and 136 Dispersive Transport Equations and Multiscale Models focus on the modeling of processes for which transport is one of the most complicated components This includes processes that involve a wide range of length scales over different spatio temporal regions of the problem ranging from the order of mean free paths to many times this scale Consequently effective modeling techniques require different transport models in each region The first issue is that of finding efficient simulations techniques since a fully resolved kinetic simulation is often impractical One therefore develops homogenization stochastic or moment based subgrid models Another issue is to quantify the discrepancy between macroscopic models and the underlying kinetic description especially when dispersive effects become macroscopic for example due to quantum effects in semiconductors and superfluids These two volumes address these questions in relation to a wide variety of application areas such as semiconductors plasmas fluids chemically reactive gases etc *Chemical Heterogeneity and Exposure Time Accounting in Subsurface Fate and Transport* Uma Seeboonruang,2003 **Air-quality Impacts of Heat Island Control and Atmospheric Effects of Urban Solar Photovoltaic Arrays** Haider Taha,Altostratus Inc,2011 **Mathematical Methods in Geophysical Imaging** ,1998 **Proceedings of the Indian National Science Academy** Indian National Science Academy,2003 **Chemical Abstracts** ,1994-03-07 Deutsche Nationalbibliografie ,2004 **EPA Publications Bibliography** ,1998

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