

THE IMA VOLUMES IN MATHEMATICS  
AND ITS APPLICATIONS

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# **Dispersive Transport Equations and Multiscale Models**



Springer

# Dispersive Transport Equations And Multiscale Models

**Adrian Muntean, Jens D. M.  
Rademacher, Antonios Zagaris**



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

**Dispersive Transport Equations and Multiscale Models** Ben Abdallah Naoufel, Anton Arnold, Pierre Degond, 2011-05-12 *Advances in Chemical Engineering* Guy B. Marin, 2005-10-24 The theme of the present volume Multiscale Analysis has been introduced about a decade ago and is now reaching a stage where a first balance can be made and further research directions should be decided Contributions have been carefully selected to ensure the reader will not be confronted with quantum mechanics at one side of the spectrum nor with chemical plants or even the environment on the other side Maintaining a strong connection with reality i.e. experimental data was another selection criterion Experimental validation remains the corner stone of any theoretical development and very powerful experimental techniques are emerging Areas covered include discussing in depth an important example of experimental techniques Coming from the medical world Magnetic Resonance techniques can now provide even quantitative answers to problems our community is faced with The modeling issue is discussed further Finally the limitations of the classic reactor engineering models are outlined Original reviews Leading chemical engineers as authors Update on biomaterials use Novel subject on use of biomaterials in drug delivery and gene therapy Mathematical modeling *Computational Modelling of Multi-scale Solute Dispersion in Porous Media* Don Kulasiri, 2011-11-04 This research monograph presents a mathematical approach based on stochastic calculus which tackles the cutting edge in porous media science and engineering prediction of dispersivity from covariance of hydraulic conductivity velocity The problem is of extreme importance for tracer analysis for enhanced recovery by injection of miscible gases etc This book explains a generalised mathematical model and effective numerical methods that may highly impact the stochastic porous media hydrodynamics The book starts with a general overview of the problem of scale dependence of the dispersion coefficient in porous media Then a review of pertinent topics of stochastic calculus that would be useful in the modeling in the subsequent chapters is succinctly presented The development of a generalised stochastic solute transport model for any given velocity covariance without resorting to Fickian assumptions from laboratory scale to field scale is discussed in detail The mathematical approaches presented here may be useful for many other problems related to chemical dispersion in porous media **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 CO<sub>2</sub> 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 **Natural Locomotion in Fluids and on Surfaces** Stephen Childress, Anette Hosoi, William W. Schultz, Jane Wang, 2012-08-14 This volume developed from a Workshop on Natural Locomotion in Fluids and on Surfaces Swimming

Flying and Sliding which was held at the Institute for Mathematics and its Applications IMA at the University of Minnesota from June 15 2010 The subject matter ranged widely from observational data to theoretical mechanics and reflected the broad scope of the workshop In both the prepared presentations and in the informal discussions the workshop engaged exchanges across disciplines and invited a lively interaction between modelers and observers The articles in this volume were invited and fully refereed They provide a representative if necessarily incomplete account of the field of natural locomotion during a period of rapid growth and expansion The papers presented at the workshop and the contributions to the present volume can be roughly divided into those pertaining to swimming on the scale of marine organisms swimming of microorganisms at low Reynolds numbers animal flight and sliding and other related examples of locomotion **Advances**

**in Chemical Engineering** ,2008-09-22 The cross fertilization of physico chemical and mathematical ideas has a long historical tradition This volume of Advances in Chemical Engineering is almost completely dedicated to a conference on Mathematics in Chemical Kinetics and Engineering MaCKiE 2007 which was held in Houston in February 2007 bringing together about 40 mathematicians chemists and chemical engineers from 10 countries to discuss the application and development of mathematical tools in their respective fields Updates and informs the reader on the latest research findings using original reviews Written by leading industry experts and scholars Reviews and analyzes developments in the field

**Macroscopic and Large Scale Phenomena: Coarse Graining, Mean Field Limits and Ergodicity** Adrian Muntean,Jens D. M. Rademacher,Antonios Zagaris,2016-01-28 This book is the offspring of a summer school school Macroscopic and large scale phenomena coarse graining mean field limits and ergodicity which was held in 2012 at the University of Twente the Netherlands The focus lies on mathematically rigorous methods for multiscale problems of physical origins Each of the four book chapters is based on a set of lectures delivered at the school yet all authors have expanded and refined their contributions Francois Golse delivers a chapter on the dynamics of large particle systems in the mean field limit and surveys the most significant tools and methods to establish such limits with mathematical rigor Golse discusses in depth a variety of examples including Vlasov Poisson and Vlasov Maxwell systems Lucia Scardia focuses on the rigorous derivation of macroscopic models using Gamma convergence a more recent variational method which has proved very powerful for problems in material science Scardia illustrates this by various basic examples and a more advanced case study from dislocation theory Alexander Mielke s contribution focuses on the multiscale modeling and rigorous analysis of generalized gradient systems through the new concept of evolutionary Gamma convergence Numerous evocative examples are given e g relating to periodic homogenization and the passage from viscous to dry friction Martin G Ill and Evgeny Verbitskiy conclude this volume taking a dynamical systems and ergodic theory viewpoint They review recent developments in the study of homoclinic points for certain discrete dynamical systems relating to particle systems via ergodic properties of lattices configurations *American Book Publishing Record* ,2004 **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 inter disciplinary 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 **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 D veloppement des Technologies Avanc es 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 *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 *SSSA Special Publication Series* ,2001

*Proceedings of the Indian National Science Academy* Indian National Science Academy, 2003      *Dissertation Abstracts International* ,2008      **Determination of the Horizontal Diffusion Coefficient for Use in the SARMAP Air Quality Model** R. J. Yamartino, 2000      *Rarefied Gas Dynamics* M. Capitelli, 2005-06-21 The book contains papers presented at the 24th International Symposium on Rarefied Gas Dynamics a conference that is recognized as the principal forum for the presentation of recent advances in the field of rarefied gas dynamics The topics include fundamental aspects of Boltzmann and related equations transport theory Monte Carlo methods kinetic theory gas phase molecular collision dynamics gas surface interaction state to state kinetics rarefied plasmas and non equilibrium plasma kinetics Applications in the fields of internal flows vacuum systems rarefied jets plumes molecular beams scramjets and hypersonics microflows granular gases electrical thrusters are discussed Researchers in the fields of mathematics physics chemistry and engineering can strongly benefit from the interdisciplinary nature of the book      **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      *Chemical Heterogeneity and Exposure Time Accounting in Subsurface Fate and Transport* Uma Seeboonruang, 2003      Deutsche Nationalbibliografie ,2004

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