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Macroscopic Transport Equations for Rarefied Gas Flows

Approximation Methods
in Kinetic Theory

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Macroscopic Transport Equations For Rarefied Gas Flows Approximation Methods In Kinetic Theory Interaction Of Mechanics And Mathematics

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From Kinetic Theory to Turbulence Modeling Paolo Barbante, Francesco D. Belgioirno, Silvia Lorenzani, Lorenzo Valdetaro, 2023-04-29 The book collects relevant contributions presented at a conference organized in honour of Carlo Cercignani that took place at Politecnico di Milano on May 24 28 2021 Different research areas characterizing the scientific work of Carlo Cercignani have been considered with a particular focus on mathematical and numerical methods for kinetic equations kinetic modelling of gas mixtures and polyatomic gases applications of the Boltzmann equation to electron transport social phenomena and epidemic spread turbulence modelling the Einstein Classical Program Dynamical Systems Theory

Direct Modeling For Computational Fluid Dynamics: Construction And Application

Of Unified Gas-kinetic Schemes Kun Xu, 2014-12-23 Computational fluid dynamics CFD studies the flow motion in a discretized space Its basic scale resolved is the mesh size and time step The CFD algorithm can be constructed through a direct modeling of flow motion in such a space This book presents the principle of direct modeling for the CFD algorithm development and the construction unified gas kinetic scheme UGKS The UGKS accurately captures the gas evolution from rarefied to continuum flows Numerically it provides a continuous spectrum of governing equation in the whole flow regimes

Mesosopic Theories of Heat Transport in Nanosystems Antonio Sellitto, Vito Antonio Cimmelli, David Jou, 2016-02-03 This book presents generalized heat conduction laws which from a mesoscopic perspective are relevant to new applications especially in nanoscale heat transfer nanoscale thermoelectric phenomena and in diffusive to ballistic regime and at the same time keep up with the pace of current microscopic research The equations presented in the book are compatible with generalized formulations of nonequilibrium thermodynamics going beyond the local equilibrium The book includes six main chapters together with a preface and a final section devoted to the future perspectives as well as an extensive bibliography

The Physics of Phonons Gyaneshwar P. Srivastava, 2022-09-28 This fully updated second edition of *The Physics of Phonons* remains the most comprehensive theoretical discussion devoted to the study of phonons a major area of condensed matter physics It contains exciting new sections on phonon related properties of solid surfaces atomically thin materials such as graphene and monolayer transition metal chalcogenides in addition to nano structures and nanocomposites thermoelectric nanomaterials and topological nanomaterials with an entirely new chapter dedicated to topological nanophononics and chiralphononics Although primarily theoretical in approach the author refers to experimental results wherever possible ensuring an ideal book for both experimental and theoretical researchers The author begins with an introduction to crystal symmetry and continues with a discussion of lattice dynamics in the harmonic approximation including the traditional phenomenological approach and the more recent ab initio approach detailed for the first time in this book A discussion of anharmonicity is followed by the theory of lattice thermal conductivity presented at a level far beyond that available in any other book The chapter on phonon interactions is likewise more comprehensive than any similar discussion elsewhere The sections on phonons in superlattices impure and mixed crystals quasicrystals phonon spectroscopy Kapitza resistance and quantum evaporation also contain material appearing in book form for the first time The book is complemented by numerous diagrams that aid understanding and is comprehensively referenced for further study With its unprecedented wide coverage of the field *The Physics of Phonons* is an indispensable guide for advanced undergraduates postgraduates and researchers working in condensed matter physics and materials science Features Fully updated throughout with exciting new coverage on graphene nanostructures and nanocomposites thermoelectric nanomaterials and topological nanomaterials Authored by an authority on phonons Interdisciplinary with broad applications through condensed matter physics nanoscience and materials science

Emerging Applications of Plasma Science in Allied Technologies Shahzad, Aamir, He,

Maogang,2024-01-29 The scientific application of plasma across a variety of fields continues to expand with new research at a remarkable rate The convergence between plasma science and domains such as energy materials semiconductor systems textiles medicine agriculture and space exploration is merely scratching the surface of the known possibilities of this technology Scientists require a sound understanding of the current state of these possibilities in order to push the technology further into the unknown potential of plasma science The chapters of the book Emerging Applications of Plasma Science in Allied Technologies coalesce to form a holistic panorama of innovations encompassing everything from sustainable energy solutions to antimicrobial applications This book stands as a definitive guide to the forefront of innovation and offers a comprehensive dive into the profound impacts of plasma science across diverse fields presenting a synthesis of cutting edge research and development It opens with a meticulous overview of the foundational principles underpinning plasma science serving as a springboard for the exploration of its myriad applications From fundamental physics and mechanisms to innovative designs and allied technologies the pages illuminate the multifaceted dimensions of plasma based advancements Plasma technology catalyzes advancements in modern medicine and healthcare The intricate interplay between plasma based treatments and living tissues is dissected revealing a landscape where innovation bridges the gap between science fiction and reality This book unpacks the critical role of plasma science in the eco friendly conversion of carbon dioxide thereby offering a beacon of hope in the struggle against climate change This book is a trailblazing resource for academics researchers and postgraduate students offering a comprehensive foundation in this groundbreaking field Industry professionals from biomedical engineers to agricultural innovators will find a treasure trove of insights to fuel their work This book beckons policymakers and visionaries to comprehend the potential of plasma science in steering humanity toward sustainable cleaner and healthier futures

Proceedings of the 4th International Conference on Nanochannels, Microchannels and Minichannels-- 2006, 2006 **Rarefied Gas Dynamics**, 2009 Proceedings, 2009 Proceedings A publishes refereed research papers in the mathematical physical and engineering sciences The emphasis is on new emerging areas of interdisciplinary and multidisciplinary research Continues Proceedings Mathematical and physical sciences

Applied Mechanics Reviews, 1980 **Charge Transport in Low Dimensional Semiconductor Structures** Vito Dario Camiola, Giovanni Mascali, Vittorio Romano, 2020-03-02 This book offers from both a theoretical and a computational perspective an analysis of macroscopic mathematical models for description of charge transport in electronic devices in particular in the presence of confining effects such as in the double gate MOSFET The models are derived from the semiclassical Boltzmann equation by means of the moment method and are closed by resorting to the maximum entropy principle In the case of confinement electrons are treated as waves in the confining direction by solving a one dimensional Schrödinger equation obtaining subbands while the longitudinal transport of subband electrons is described semiclassically Limiting energy transport and drift diffusion models are also obtained by using suitable scaling procedures An entire chapter

in the book is dedicated to a promising new material like graphene The models appear to be sound and sufficiently accurate for systematic use in computer aided design simulators for complex electron devices The book is addressed to applied mathematicians physicists and electronic engineers It is written for graduate or PhD readers but the opening chapter contains a modicum of semiconductor physics making it self consistent and useful also for undergraduate students

Mathematical Reviews ,2001 Government Reports Announcements ,1971-12-25 **Scientific and Technical Aerospace Reports** ,1968 Government Reports Announcements & Index ,1971 **Deutsche Nationalbibliografie** ,2005-07 Physics Briefs ,1993 **Non-Equilibrium Reacting Gas Flows** Ekaterina Nagnibeda,Elena

Kustova,2009-07-09 In the present monograph we develop the kinetic theory of transport phenomena and relaxation processes in the flows of reacting gas mixtures and discuss its applications to strongly non equilibrium conditions The main attention is focused on the influence of non equilibrium kinetics on gas dynamics and transport properties Closed systems of fluid dynamic equations are derived from the kinetic equations in different approaches We consider the most accurate approach taking into account the state to state kinetics in a flow as well as simplified multi temperature and one temperature models based on quasi stationary distributions Within these approaches we propose the algorithms for the calculation of the transport coefficients and rate coefficients of chemical reactions and energy exchanges in non equilibrium flows the developed techniques are based on the fundamental kinetic theory principles The theory is applied to the modeling of non equilibrium flows behind strong shock waves in the boundary layer and in nozzles The comparison of the results obtained within the frame of different approaches is presented the advantages of the new state to state kinetic model are discussed and the limits of validity for simplified models are established The book can be interesting for scientists and graduate students working on physical gas dynamics aerothermodynamics heat and mass transfer non equilibrium physical chemical kinetics and kinetic theory of gases *Rarefied Gas Dynamics* Maurice N. Kogan,2013-11-11

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