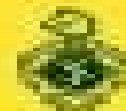
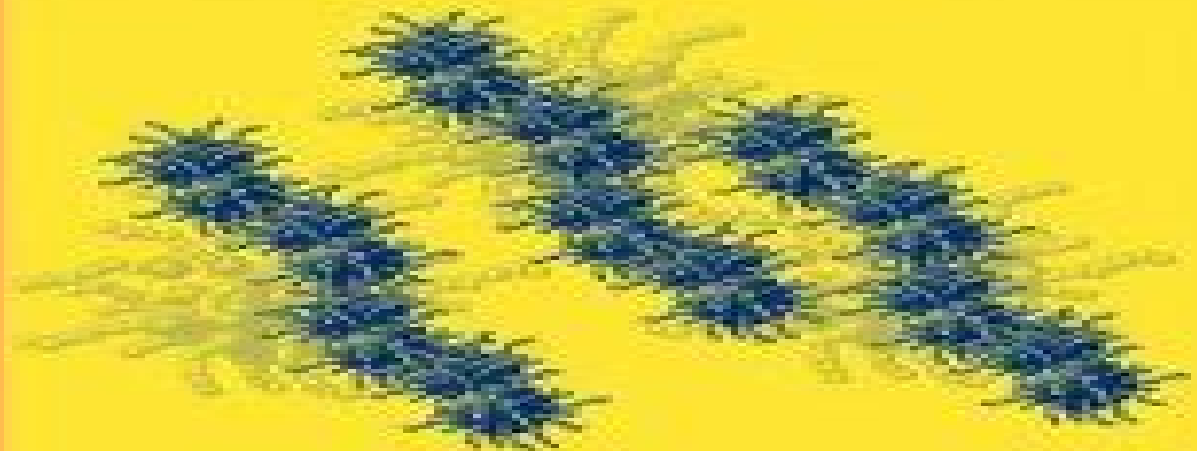


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Magnetoviscous Effects in Ferrofluids



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Magnetoviscous Effects in Ferrofluids Stefan Odenbach, 2003-07-01 Suspensions of magnetic nanoparticles or ferrofluids can be effectively controlled by magnetic fields which opens up a fascinating field for basic research into fluid dynamics as well as a host of applications in engineering and medicine The introductory chapter provides the reader with basic information on the structure and magnetic and viscous properties of ferrofluids The bulk of this monograph is based on the author's own research activity and deals with ferrohydrodynamics especially with the magnetoviscous effects In particular the author studies in detail the interparticle interactions so far often neglected but of great importance in concentrated ferrofluids The basic theory and the most recent experimental findings are presented making the book interesting reading for physicists or engineers interested in smart materials

Ferrofluids Stefan Odenbach, 2008-01-11 Magnetic control of the properties and the flow of liquids is a challenging field for basic research and for applications This book is meant to be both an introduction to and a state of the art review of this topic Written in the form of a set of lectures and tutorial reviews the book addresses the synthesis and characterization of magnetic fluids their hydrodynamical description and their rheological properties The book closes with an account of magnetic drug targeting

Non-Equilibrium Ferrohydrodynamics Wenming Yang, 2024-12-23 Ferrofluids a synthetic intelligent liquid material exhibit fascinating flow phenomena when subjected to magnetic fields This book systematically examines the fundamentals applications mathematical derivations and properties of non equilibrium ferrohydrodynamics and explores the magnetization and viscosity properties of ferrofluids The book begins with an introduction to the basic concepts and applications of non equilibrium ferrohydrodynamics and transport theory It then goes on to discuss the equations of non equilibrium and quasi equilibrium ferrohydrodynamics and the magnetic levitation force in ferrofluids The author discusses two crucial properties of ferrofluids magnetization properties and viscosity properties presenting the ferrofluid magnetization equations and the magnetoviscous effect an important physical manifestation of non equilibrium theory Different types of flows of ferrofluids under the application of different magnetic field configurations are also elucidated illustrating specific manifestations of non equilibrium ferrohydrodynamics in different flow patterns This book will be a valuable reference for researchers and students of mechanical engineering with an interest in fluid dynamics computational mechanics and electromagnetism Professionals working in areas of ferrofluid applications such as mechanics petrochemical engineering environmental sciences and biomedicine will also benefit

Material Aspects of Ferrofluids R. P. Pant, Vidya Nand Singh, Komal Jain, Arvind Gautam, 2023-09-01 Ferrofluids are smart materials possessing high controllability over its sensing and actuations behaviour which makes them suitable for contemporary technology This book provides a comprehensive and accessible account of the material aspects of ferrofluids and its composites It covers all the aspects of ferrofluids from physical to colloid stability factors optical to thermal behaviour and rheological properties An account of ferrofluid applications such as fine polishing

energy conversion biomedical and further scope is presented This book is indispensable for researchers academicians and technologists working on magnetic nanosuspensions

Nanofluid Heat and Mass Transfer in Engineering Problems

Mohsen Sheikholeslami Kandelousi, 2017-03-15 In the present book nanofluid heat and mass transfer in engineering problems are investigated The use of additives in the base fluid like water or ethylene glycol is one of the techniques applied to augment heat transfer Newly innovative nanometer sized particles have been dispersed in the base fluid in heat transfer fluids The fluids containing the solid nanometer sized particle dispersion are called nanofluids At first nanofluid heat and mass transfer over a stretching sheet are provided with various boundary conditions Problems faced for simulating nanofluids are reported Also thermophysical properties of various nanofluids are presented Nanofluid flow and heat transfer in the presence of magnetic field are investigated Furthermore applications for electrical and biomedical engineering are provided Besides applications of nanofluid in internal combustion engine are provided

Proceedings of the 10th International Conference on Electrorheological Fluids and Magnetorheological Suspensions

Faramarz Gordaninejad, 2007 ERMR 2006 included invited speakers technical presentations poster presentations and a student paper competition At the conference banquet Dr David Carlson of Lord Corporation addressed the conference attendees and gave a stirring speech on the history of ER and MR fluids as well as current and future applications A unique feature of the ERMR Conferences is that they comprehensively cover issues ranging from physics to chemistry to engineering applications of ER and MR materials held in a general session to enhance the interaction between the scientists and engineers The sessions in ERMR 2006 were organized based into two Symposia a Materials and b Applications Topics covered in the Materials Symposium included mechanisms preparation and characterization of ER and MR materials Topics covered in the Applications Symposium included ER and MR devices control systems system integration and applications This structure was implemented in order to enable interaction between attending scientists and engineers in both the Materials Symposium and the Applications Symposium and to enhance the free flow of ideas and the potential collaborative research opportunities

Handbook of Magnetic Materials K.H.J. Buschow, 2006-02-08 Volume 16 of the Handbook on the Properties of Magnetic Materials as the preceding volumes has a dual purpose As a textbook it is intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism without the need to read the vast amount of literature published As a work of reference it is intended for scientists active in magnetism research To this dual purpose Volume 16 of the Handbook is composed of topical review articles written by leading authorities In each of these articles an extensive description is given in graphical as well as in tabular form much emphasis being placed on the discussion of the experimental material in the framework of physics chemistry and material science It provides the readership with novel trends and achievements in magnetism composed of topical review articles written by leading authorities intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism as a work of reference it is intended for scientists

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Magnetic Hybrid-Materials Stefan Odenbach,2021-10-25 Externally tunable properties allow for new applications of magnetic hybrid materials containing magnetic micro and nanoparticles in sensors and actuators in technical and medical applications By means of easy to generate and control magnetic fields changes of the internal particle arrangements and the macroscopic properties can be achieved This monograph delivers the latest insights into multi scale modelling experimental characterization manufacturing and application of those magnetic hybrid materials

Colloidal Magnetic Fluids Stefan Odenbach,2009-04-21 Research into the fascinating properties and applications of magnetic fluids also called ferrofluids is rapidly growing making it necessary to provide at regular intervals a coherent and tutorial account of the combined theoretical and experimental advances in the field This volume is an outgrowth of seven years of research by some 30 interdisciplinary groups of scientists theoretical physicists describing the behaviour of such complex fluids chemical engineers synthesizing nanosize magnetic particles experimentalist measuring the fluid properties and mechanical engineers exploring the many applications such fluids offer in turn providing application guided feedback to the modellers and requests for the preparation of new fluid types to chemists in particular those providing optimum response to given magnetic field configurations Moreover recent developments towards biomedical applications widens this spectrum to include medicine and pharmacology Consisting of six large chapters on synthesis and characterization thermo and electrodynamics surface instabilities structure and rheology biomedical applications as well as engineering and technical applications this work is both a unique source of reference for anyone working in the field and a suitable introduction for newcomers to the field

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