

Electrohydrodynamics

Physics Briefs 1991

Integrated Energy Vocabulary 1976 Thesaurus containing the merged terminology of ten leading information systems concerning energy research and development.

Electrokinetics and Electrohydrodynamics in Microsystems Antonio Ramos 2011-09-20 Among the most promising techniques to handle small objects at the micrometer scale are those that employ electrical forces, which have the advantages of voltage-based control and dominance over other forces. The book provides a state-of-the-art knowledge on both theoretical and applied aspects of the electrical manipulation of colloidal particles and fluids in microsystems and covers the following topics: dielectrophoresis, electrowetting, electrohydrodynamics in microsystems, and electrokinetics of fluids and particles. The book is addressed to doctoral students, young or senior researchers, chemical engineers and/or biotechnologists with an interest in microfluidics, lab-on-chip or MEMS.

Soviet Physics, Doklady 1989

Integrated Energy Vocabulary, 1976 United States. National Technical Information Service 1976

Soviet Physics 1979

Nuclear Science Abstracts 1974-07

Magnetohydrodynamics 1990

NASA SP. 1976

Electrohydrodynamics Antonio Castellanos 2014-05-04 The aim of this book is to provide, both the non-specialist and the specialist in EHD, with the ability to extract meaningful information from his/her experimental data and acquire a good physical understanding, by applying the ideas presented in this book. In addition to providing the scientific background, it is also intended to take the reader to the frontiers of research in this field, so they may go, without effort, into the specialized literature. This book may be considered as complementary to the excellent treatment of EHD made in the classical book "Continuum Electromechanics" by Melcher, in that care has been taken to avoid overlapping of the subjects. In case a topic is treated in both texts, the results presented in the book by Melcher serve as an introduction to the more advanced treatment presented in this book.

Dynamics of Rigid and Flexible Polymer Chains ; Transport Through Confined Geometries ; Electrohydrodynamics O Ok Park 1985

Electrohydrodynamics in Dusty and Dirty Plasmas H. Kikuchi 2013-03-09 This monograph is the first book exclusively devoted to Electrohydrodynamics in Dusty and Dirty Plasmas with extended Electrodynamics and Gravito-Electrodynamics with Electric Mirrors. The book incorporates novel concepts of Electro Cusp-Reconnection and Generalized Critical Ionization Velocities as well as modern concepts of Self-Organization and Chaos. Therefore, the book is special and quite different from the previous edition in the field of plasma physics in terms of scope, object, and approach. The scope of the present work is much broader and much more general with space and laboratory applications, including collisional neutral and partially ionized gases in electric and space-charge fields, thereby accompanying electrical charging, electrification, discharge, ionization and recombination. The book will serve as a text book, text-related or reference book for graduate students, post graduates, and scientists in geo-astro, space, and laboratory plasma physics, electromagnetics and fluid dynamics. In addition, it will be useful for researchers outside the plasma community who wish to obtain new physical insights, aspects, and points of view.

Proceedings of the ASME-JSME Thermal Engineering Joint Conference: Electrohydrodynamic heat transfer augmentation 1991

Electrohydrodynamics of Drops and Bubbles Osman Ali Basaran 1984

Electrohydrodynamic Patterning of Functional Materials Pola Goldberg Oppenheimer 2013-07-23 This thesis explores a route to induce and control the structure formation process in thin films by the use of strong electric fields. We investigate, establish and apply the use of the electrohydrodynamic (EHD) lithography as a versatile patterning tool on the sub-micrometre and nanometre length scales for functional materials. Thin films are ubiquitous, they are found in nature and used in almost every aspect of daily life. While film instabilities are often undesirable in nature and technology, they can be utilized to produce structures by precisely controlling the destabilization of the film. EHD

lithography utilizes instabilities induced by means of an electric field to fabricate periodic structures. EHD patterning is set to become a competitive candidate for low-cost lithographic technology for a number of applications. Herein, the applied potential of this lithographic process is explored by expanding its applicability to a broad range of materials and by a simultaneous patterning of multilayer systems or functional polymers yielding hierarchical architectures with novel functionalities. EHD pattern formation enables for instance, the fabrication of multi-scale structured arrays as surface enhanced Raman scattering (SERS)-active platforms. Furthermore, crystalline and conductive polymers are patterned using the EHD approach and the underlying structure formation mechanisms are discussed. This extension towards functional material systems offers interesting prospects for potential applications. Findings of this thesis are very promising for use in optoelectronic devices.

Numerical Simulations of Complex Multiphase Flows Judy Hweina Che 1999

Proceedings of ... IEEE ... International Conference on Dielectric Liquids (ICDL). 2005

Fluid Dynamics 1974

Flat Plate Electrohydrodynamic Heat Pipe Experiments 1975

Electrohydrodynamics Antonio Castellanos 1998-10-27 The aim of this book is to provide, both the non-specialist and the specialist in EHD, with the ability to extract meaningful information from his/her experimental data and acquire a good physical understanding, by applying the ideas presented in this book. In addition to providing the scientific background, it is also intended to take the reader to the frontiers of research in this field, so they may go, without effort, into the specialized literature. This book may be considered as complementary to the excellent treatment of EHD made in the classical book "Continuum Electromechanics" by Melcher, in that care has been taken to avoid overlapping of the subjects. In case a topic is treated in both texts, the results presented in the book by Melcher serve as an introduction to the more advanced treatment presented in this book.

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