

Low-Gravity Fluid Dynamics and Transport Phenomena

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Lowgravity Fluid Dynamics And Transport Phenomena

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Low-Gravity Fluid Dynamics and Transport Phenomena Robert L. Sani, 1990 *Fundamentals of Low Gravity Fluid Dynamics and Heat Transfer* Basil N. Antar, 2019-07-23 This book presents the fundamentals of low gravity fluid dynamics and heat transfer. It investigates fluid behavior in low gravity environments such as those found in earth orbiting and space vehicles. The two major fluid phenomena affected by gravity buoyancy and surface tension are treated thoroughly from both the theoretical and applications points of view and limitations of fluid and thermal responses to gravitational fields in space based settings are clearly delineated. Summaries of all data available from low gravity flight and terrestrial experiments performed to date are also presented. Center for Low-Gravity Fluid Mechanics and Transport Phenomena National Aeronautics and Space Administration, 2018-10-23 Research projects in several areas are discussed. Mass transport in vapor phase systems, droplet collisions and coalescence in microgravity and rapid solidification of undercooled melts are discussed. Kassoy D R and Sani R L Unspecified Center NAGW 951 **Advanced Transport Phenomena** L. Gary Leal, 2007-06-18 Advanced Transport Phenomena is ideal as a graduate textbook. It contains a detailed discussion of modern analytic methods for the solution of fluid mechanics and heat and mass transfer problems focusing on approximations based on scaling and asymptotic methods beginning with the derivation of basic equations and boundary conditions and concluding with linear stability theory. Also covered are unidirectional flows, lubrication and thin film theory, creeping flows, boundary layer theory and convective heat and mass transport at high and low Reynolds numbers. The emphasis is on basic physics, scaling and nondimensionalization and approximations that can be used to obtain solutions that are due either to geometric simplifications or large or small values of dimensionless parameters. The author emphasizes setting up problems and extracting as much information as possible short of obtaining detailed solutions of differential equations. The book also focuses on the solutions of representative problems. This reflects the book's goal of teaching readers to think about the solution of transport problems. **Computational Fluid Dynamics with Moving Boundaries** Wei Shyy, H. S. Udaykumar, Madhukar M. Rao, Richard W. Smith, 2012-08-21 This text describes several computational techniques that can be applied to a variety of problems in thermo fluid physics, multi phase flow and applied mechanics involving moving flow boundaries. Step by step discussions of numerical procedures include multiple examples that employ algorithms in problem solving. In addition to its survey of contemporary numerical techniques, this volume discusses formulation and computation strategies as well as applications in many fields. Researchers and professionals in aerospace, chemical, mechanical and materials engineering will find it a valuable resource. It is also an appropriate textbook for advanced courses in fluid dynamics, computation, fluid dynamics, heat transfer and numerical methods. **Microgravity Research in Support of Technologies for the Human Exploration and Development of Space and Planetary Bodies** National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Space Studies Board, Committee on Microgravity

Research,2000-08-03 The frontier represented by the near solar system confronts humanity with intriguing challenges and opportunities With the inception of the Human Exploration and Development of Space HEDS enterprise in 1995 NASA has acknowledged the opportunities and has accepted the very significant challenges Microgravity Research in Support of Technologies for the Human Exploration and Development of Space and Planetary Bodies was commissioned by NASA to assist it in coordinating the scientific information relevant to anticipating identifying and solving the technical problems that must be addressed throughout the HEDS program over the coming decades This report assesses scientific and related technological issues facing NASA s Human Exploration and Development of Space endeavor looking specifically at mission enabling and enhancing technologies which for development require an improved understanding of fluid and material behavior in a reduced gravity environment

Physics of Fluids in Microgravity Rodolfo Monti,2002-01-10 In a microgravity experiment the conditions prevalent in fluid phases can be substantially different from those on the ground and can be exploited to improve different processes Fluid physics research in microgravity is important for the advancement of all microgravity sciences life material and engineering Space flight provides a unique

Microgravity Science and Applications Program Tasks ,1992 **NASA Technical Memorandum** ,1994 Research and Technology Objectives and Plans Summary ,1990 **Scientific and Technical Aerospace Reports** ,1995 *Microgravity Fluid Mechanics* Hans J. Rath,2012-12-06 Substantial progress has been made in the field of fluid mechanics under compensated gravity effects microgravity The main task of this discipline has evolved tremendously Starting out with the aim of providing assistance in describing flow problems in other microgravity sciences microgravity fluid mechanics has itself now become acknowledge as a powerful means of research The IUTAM Symposium on Microgravity Fluid Mechanics has provided the long awaited forum for scientists from 15 countries to discuss and concretize the state of the art in this discipline The main themes treated are Interface Phenomena Convective Processes Marangoni effects Solidification Combustion Physico Chemical Processes Multiphase Phenomena Residual Acceleration effects Fluid Handling and Non Newtonian Flows

Fluid Sciences and Materials Science in Space H.U. Walter,2012-12-06 The peaceful use of space flight systems for research and technological developments in the context of promoting European and international cooperation represents the essential motivation for the programmes of the European Space Agency ESA One of ESA s programmes is dedicated to microgravity research which is now an established discipline in Europe with a dedicated group of scientists participating The Challenger disaster has resulted in a serious discontinuity of flight opportunities in the next few years but the forthcoming International Space Station new launchers and reentry vehicles are expected to provide ample opportunities for microgravity research in the long term Meanwhile parabolic aircraft flights sounding rockets as well as the delayed Shuttle dependent missions Spacelab D 2 the IML missions and EURECA I will be employed to keep microgravity experimenters reasonably busy in the interim period To prepare the ground for these activities both regarding research and experiment facilities an in depth

analysis of the state of the art is an essential requirement at this time Such an analysis is presented in this volume It addresses all of the topics that have been identified to be of relevance Besides a presentation of the fundamental aspects justifying microgravity research the results of experiments already performed are reviewed and recommendations for future activities are made Close to fifty European scientists have cooperated in the preparation of this volume and their dedicated and concerted effort is greatly appreciated

Liquid Sloshing Dynamics Raouf A. Ibrahim, 2005-05-19 The problem of liquid sloshing in moving or stationary containers remains of great concern to aerospace civil and nuclear engineers physicists designers of road tankers and ship tankers and mathematicians Beginning with the fundamentals of liquid sloshing theory this book takes the reader systematically from basic theory to advanced analytical and experimental results in a self contained and coherent format The book is divided into four sections Part I deals with the theory of linear liquid sloshing dynamics Part II addresses the nonlinear theory of liquid sloshing dynamics Faraday waves and sloshing impacts Part III presents the problem of linear and nonlinear interaction of liquid sloshing dynamics with elastic containers and supported structures and Part IV considers the fluid dynamics in spinning containers and microgravity sloshing This book will be invaluable to researchers and graduate students in mechanical and aeronautical engineering designers of liquid containers and applied mathematicians

Microgravity Science and Applications Bibliography, 1991

Assessment of Directions in Microgravity and Physical Sciences Research at NASA National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Microgravity Research, 2003-07-11 For thirty years the NASA microgravity program has used space as a tool to study fundamental flow phenomena that are important to fields ranging from combustion science to biotechnology This book assesses the past impact and current status of microgravity research programs in combustion fluid dynamics fundamental physics and materials science and gives recommendations for promising topics of future research in each discipline Guidance is given for setting priorities across disciplines by assessing each recommended topic in terms of the probability of its success and the magnitude of its potential impact on scientific knowledge and understanding terrestrial applications and industry technology needs and NASA technology needs At NASA's request the book also contains an examination of emerging research fields such as nanotechnology and biophysics and makes recommendations regarding topics that might be suitable for integration into NASA's microgravity program

Monthly Catalogue, United States Public Documents, 1994-10 *Monthly Catalog of United States Government Publications*, 1994

Microgravity Science & Applications, 1993 Highlights in Space, 1993

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