

Low-Gravity Fluid Dynamics and Transport Phenomena

Edited by
Jean N. Koster
Robert L. Sani

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A. Richard Seebass
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Lowgravity Fluid Dynamics And Transport Phenomena

Rachel S Tattersall



Lowgravity Fluid Dynamics And Transport Phenomena:

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 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 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 **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

NASA Technical Memorandum, 1994 *Scientific and Technical Aerospace Reports*, 1995 **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 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 **Microgravity Science and Applications Program Tasks**, 1987 **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 **Fluid Sciences and Materials Science in Space** H.U. Walter, 2012-12-06 The peaceful use of space flight systems for research and technological devel

opments 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

Capillary Surfaces Dieter W. Langbein, 2003-07-01 Even today flying into space is an undertaking at the borderline of what is currently feasible A very complex assembly of sophisticated machinery is needed in order to reach orbit and return from there to Earth safely A11 astronaut knows that only if the rocket engines inertial navigation platforms hydraulic systems generators of electrical power attitude control systems life support systems coinputers data transmission equipment heat shields and many other components work flawlessly can he or she accomplish a mission in good health A11 other words there is risk but the odds are better than even How else could a man or a woman see the incredible beauty of our planet Earth from a distance Take the combination of its colours white and blue It is so breathtakingly stunning that most likely not even a poet could find words to adequately describe it There is the curved line of the horizon with an incredibly black sky above it At first sight it is evident how endless and empty the universe actually is The Earth's horizon is fringed with a royal blue seam our atmosphere Its beauty and fragility are thrilling and seen from orbit it is instantly apparent that there is not much air around us

Science with Minisat 01 Alvaro Gimenez, 2012-12-06 This book includes the proceedings of the Workshop held in Madrid April 1999 to celebrate 2 years of successful operation of the first Spanish small scientific satellite in orbit It contains discussions about the overall philosophy of small mission programs the design of the satellite and its payload as well as the most relevant scientific outcome of the mission Also included are additional contributions to the workshop which are of importance to Minisat 01 in order to put its results within context Finally the future of small missions for space sciences is reviewed together with the main technological challenges for new studies Out of the technological and scientific results of Minisat 01 the measurement of the EUV airglow spectrum and the flux of some stars in the same range can be highlighted together with the dismissal of the massive neutrino decay theory The

high energy experiment analyzed the characterization of the radiation environment in LEO and the behaviour of different kind of detectors as well as the use of coded masks for imaging and the measurement of some specific sources The book's level is intended for specialists in EUV and Hard X Ray astrophysicists as well as for engineers and technicians involved in space science experiments and missions **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 **Surface and Interfacial Tension** Stanley Hartland, 2004-03-11 This edited volume offers complete coverage of the latest theoretical experimental and computer based data as summarized by leading international researchers It promotes full understanding of the physical phenomena and mechanisms at work in surface and interfacial tensions and gradients their direct impact on interface shape and movement and their significance to numerous applications Assessing methods for the accurate measurement of surface tension interfacial tension and contact angles Surface and Interfacial Tension presents modern simulations of complex interfacial motions such as bubble motion in liquids and authoritatively illuminates bubble nucleation and detachment Microgravity Science & Applications ,1993

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