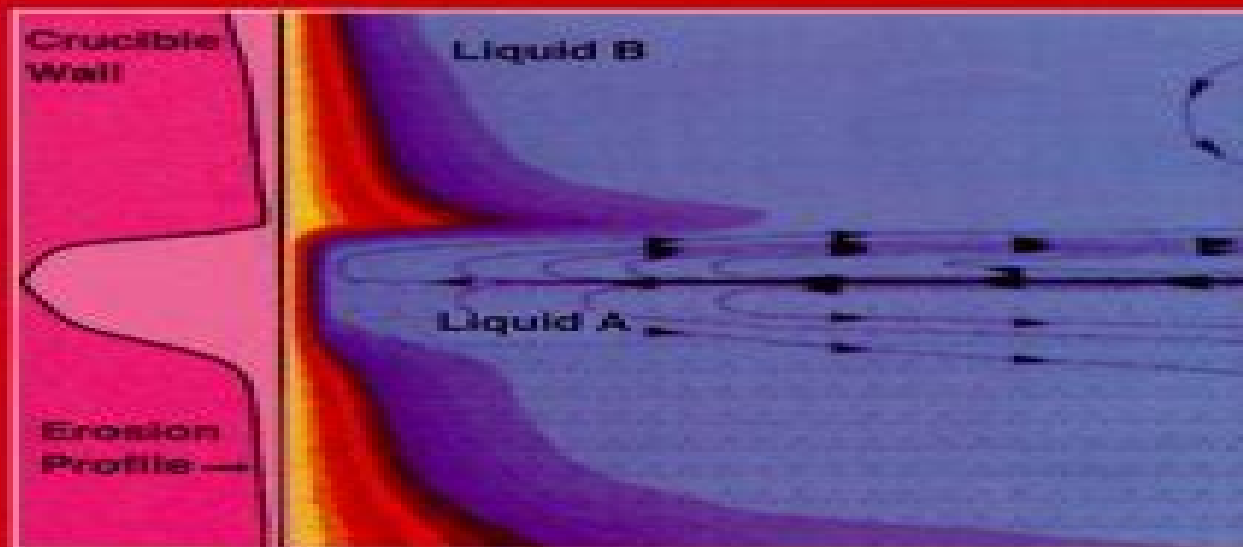


# Marangoni and Interfacial Phenomena in Materials Processing

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Organized and Edited by

E. D. Hondros, M. McLean  
and K. C. Mills



# Marangoni And Interfacial Phenomena In Materials Processing

**M. G. Velarde, Radyadour K.  
Zeytourian**



## **Marangoni And Interfacial Phenomena In Materials Processing:**

**Marangoni and Interfacial Phenomena in Materials Processing** E. D. Hondros, 1998      **Marangoni and Interfacial Phenomena in Materials Processing** Ernest D. Hondros, 1998      **Marangoni and Interfacial Phenomena in Materials Processing** E. D. Hondros, M. McLean, K. C. Mills, 1998      **Marangoni and Interfacial Phenomena in Materials Processing**, 1998      *Interfacial Phenomena and Convection* Alexander A. Nepomnyashchy, Manuel G. Velarde, Pierre Colinet, 2001-11-13

Interfacial phenomena driven by heat or mass transfer are widespread in science and various branches of engineering. Research in this area has become quite active in recent years, attributable in part at least to the entry of physicists and their sophisticated experimental techniques into the field. Until now, however, the field has lacked a readable account of the recent developments. *Interfacial Phenomena and Convection* remedies this problem by furnishing a self-contained monograph that examines a rich variety of phenomena in which interfaces play a crucial role. From a unified perspective that embraces physical chemistry, fluid mechanics, and applied mathematics, the authors study recent developments related to the Marangoni effect, including patterned convection and instabilities, oscillatory wavy phenomena, and turbulent phenomena. They examine boundary layers subjected to transverse and longitudinal thermal gradients and phenomena involving surface tension gradients as the driving forces, including falling films, drops, and liquid bridges. It is only in the past two or three decades that researchers have performed suitable clear-cut experiments involving interfacial phenomena, and the stage is now set for a virtual explosion of the field. *Interfacial Phenomena and Convection* will bring you quickly up to date on the advances realized and prepare you to both use the results and to make further advances.

**Interfacial Phenomena and the Marangoni Effect** M. G. Velarde, Radyadour K. Zeytourian, 2014-10-08. Marangoni, 1878 provided a wealth of detailed information on the effects of variations of the potential energy of liquid surfaces and in particular flow arising from variations in temperature and surfactant composition. One aspect of this science is seen today to bear on important phenomena associated with the processing of modern materials. The role of the basic effect in technology was probably first demonstrated by chemical engineers in the field of liquid-liquid extraction. Indeed, phenomena attributable to Marangoni flows have been reported in innumerable instances relevant to modern technologies, such as in hot salt corrosion in aeroturbine blades, the drying of solvent-containing paints, the drying of silicon wafers used in electronics in materials processing, particularly in metallic systems which have been suspected to demonstrate Marangoni flows.      **Liquid Interfacial Systems** Rudolph V. Birikh, Vladimir A. Briskman, Manuel G. Velarde, Jean-Claude Legros, 2003-06-17. Despite factoring in countless natural, biological, and industrial processes, fixed attention on the singular attributes and behavior of fluids near or at interfaces has not received enough attention in the surface science literature. *Liquid Interfacial Systems* assembles and analyzes concepts and findings as an inclusive summation of fluid-fluid interfacial phenomena. This book covers excitation, stabilization, and suppression of instability at liquid interfaces. From the influential original research and

scholarship of leaders in the discipline comes a volume to impart and explain definitions scales governing equations and boundary conditions used in liquid interfacial system research     Interfacial Physical Chemistry of High-Temperature Melts Kusuhiro Mukai,Taishi Matsushita,2019-08-02 This English translation of a well known Japanese book covers interfacial physicochemistry in materials science especially for iron and steelmaking processes Interfacial Physical Chemistry of High Temperature Melts bridges the gap between the basics and applications of physicochemistry The book begins with an overview of the fundamentals of interfacial physical chemistry and discusses surface tension describing the derivation of important equations to guide readers to a deep understanding of the phenomenon The book then goes on to introduce interfacial properties of high temperature melts especially the Marangoni effect and discusses applications to materials processing at high temperature focusing on recent research results by the author and the co workers This book is aimed at researchers graduate students and professionals in materials processing Video clips of in situ observation including experiments under microgravity condition and x ray observation are available for download on the publisher s website to allow for a deeper understanding     **Marangoni and Interfacial Phenomena in Materials Procesessing** Malcolm McLean,E. D. Hondros,Kenneth Claughan Mills,1998 Convection in fluids associated with gradients in surface tension whether associated with temperature or concentration gradients has been studied for over a century There has been a growing awareness of their significance to a wide range of materials processes This meeting has brought together leading scientists who are elucidating the fundamental aspects of the Marangoni effect with those with an industrial interest in exploiting the Marangoni effect to optimize material processing in diverse industrial sectors The significance of the effect in liquid metal processing such as in steel making welding coating secondary melting is shown to be particularly strong and to be a major factor in guiding the approaches to industrial control of these processes It is hoped that these proceedings will stimulate interest in applying these concepts to other processes where they undoubtedly play an important role Book jacket

*Developments in Surface Contamination and Cleaning, Vol. 1* Rajiv Kohli,Kashmiri L. Mittal,2015-11-12 Developments in Surface Contamination and Cleaning Vol 1 Fundamentals and Applied Aspects Second Edition provides an excellent source of information on alternative cleaning techniques and methods for characterization of surface contamination and validation Each volume in this series contains a particular topical focus covering the key techniques and recent developments in the area This volume forms the heart of the series covering the fundamentals and application aspects characterization of surface contaminants and methods for removal of surface contamination In addition new cleaning techniques effective at smaller scales are considered and employed for removal where conventional cleaning techniques fail along with new cleaning techniques for molecular contaminants The Volume is edited by the leading experts in small particle surface contamination and cleaning providing an invaluable reference for researchers and engineers in R D manufacturing quality control and procurement specification in a multitude of industries such as aerospace automotive biomedical defense energy

manufacturing microelectronics optics and xerography Provides best practice guidance for scientists and engineers engaged in surface cleaning or those who handle the consequences of surface contamination Addresses the continuing trends of shrinking device size and contamination vulnerability in a range of industries as spearheaded by the semiconductor industry Presents state of the art survey information on precision cleaning and characterization methods as written by a team of world class experts in the field     **Developments in Surface Contamination and Cleaning** Rajiv Kohli,Kashmiri L.

Mittal,2008-01-10 Surface contamination is of cardinal importance in a host of technologies and industries ranging from microelectronics to optics to automotive to biomedical Thus the need to understand the causes of surface contamination and their removal is very patent Generally speaking there are two broad categories of surface contaminants film type and particulates In the world of shrinking dimensions such as the ever decreasing size of microelectronic devices there is an intensified need to understand the behavior of nanoscale particles and to devise ways to remove them to an acceptable level Particles which were functionally innocuous a few years ago are killer defects today with serious implications for yield and reliability of the components This book addresses the sources detection characterization and removal of both kinds of contaminants as well as ways to prevent surfaces from being contaminated A number of techniques to monitor the level of cleanliness are also discussed Special emphasis is placed on the behaviour of nanoscale particles The book is amply referenced and profusely illustrated Excellent reference for a host of technologies and industries ranging from microelectronics to optics to automotive to biomedical A single source document addressing everything from the sources of contamination to their removal and prevention Amply referenced and profusely illustrated     Interfacial Convection in Multilayer Systems A. Nepomnyashchy,I. Simanovskii,J.C. Legros,2006-11-18 This book contains a systematic investigation of the convection in systems with interfaces For the first time it classifies all of the known types of convective instabilities in such systems and discusses the peculiarities of multilayer systems The book provides an overview of the wide variety of steady and oscillatory patterns waves and other dynamic phenomena characteristic for multilayer fluid systems Various physical effects including heat and mass transfer thermal and mechanical couplings on the interfaces interfacial deformability the influence of surfactants on different types of convective motions are investigated The text will be useful for researchers and graduate students in fluid mechanics nonlinear dynamics and applied mathematics as well as for physicists and chemical engineers interested in the investigation of the interfacial physico chemical processes and in their applications

**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 laboratory that allows scientists to improve their understanding of the behaviour of fluids in low gravity allowing the investigation of phenomena and processes normally masked by the effects of gravity and

thus difficult to study on Earth Physics of Fluids in Microgravity provides a clear view of recent research and progress in the different fields of fluid research in space The topics presented include bubbles and drops dynamics Marangoni flows diffusion and thermodiffusion solidification and crystal growth The results obtained so far are in some cases to be confirmed by extensive research activities on the International Space station where basic and applied microgravity experimentation will take place in the years to come

**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

**Proceedings**, 1998 *70th Conference on Glass Problems* Charles H. Drummond, III, 2010-07-02 This issue contains a collection of papers presented at the 70th Conference on Glass Problems at The Ohio State University Columbus Ohio Topics include melting and molding refractories and environmental issues and new products [Treatise on Process Metallurgy, Volume 2: Process Phenomena](#), 2013-11-22 Process metallurgy provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products Coverage is divided into three volumes entitled Process Fundamentals encompassing process fundamentals extractive and refining processes and metallurgical process phenomena Processing Phenomena encompassing ferrous processing non ferrous processing and refractory reactive and aqueous processing of metals and Industrial Processes encompassing process modeling and computational tools energy optimization environmental aspects and industrial design The work distills 400 years combined academic experience from the principal editor and multidisciplinary 14 member editorial advisory board providing the 2 608 page work with a seal of quality The volumes will function as the process counterpart to Robert Cahn and Peter Haasen's famous reference family Physical Metallurgy 1996 which excluded process metallurgy from consideration and which is currently undergoing a major revision under the editorship of David Laughlin and Kazuhiro Hono publishing 2014 Nevertheless process and extractive metallurgy are fields within their own right and this work will be of interest to libraries supporting courses in the process area Synthesizes the most pertinent contemporary developments within process

metallurgy so scientists have authoritative information at their fingertips Replaces existing articles and monographs with a single complete solution saving time for busy scientists Helps metallurgists to predict changes and consequences and create or modify whatever process is deployed

**Materials Processing and Manufacturing Science** Rajiv Asthana,Ashok Kumar,Narendra B. Dahotre,2006-01-09 Materials Science in Manufacturing focuses on materials science and materials processing primarily for engineering and technology students preparing for careers in manufacturing The text also serves as a useful reference on materials science for the practitioner engaged in manufacturing as well as the beginning graduate student Integrates theoretical understanding and current practices to provide a resource for students preparing for advanced study or career in industry Also serves as a useful resource to the practitioner who works with diverse materials and processes but is not a specialist in materials science This book covers a wider range of materials and processes than is customary in the elementary materials science books This book covers a wider range of materials and processes than is customary in the elementary materials science books Detailed explanations of theories concepts principles and practices of materials and processes of manufacturing through richly illustrated text Includes new topics such as nanomaterials and nanomanufacturing not covered in most similar works Focuses on the interrelationship between Materials Science Processing Science and Manufacturing Technology

**Treatise on Process Metallurgy** Alexander McLean,Roderick Guthrie,Sridhar Seetharaman,H. Y. Sohn,2025-06-16 Treatise on Process Metallurgy Volume Two Process Phenomena provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products In these fully updated volumes coverage is expanded into four volumes including Process Fundamentals encompassing process fundamentals structure and properties of matter thermodynamic aspects of process metallurgy and rate phenomena in process metallurgy Processing Phenomena encompassing interfacial phenomena in high temperature metallurgy metallurgical process phenomena and metallurgical process technology Metallurgical Processes encompassing mineral processing aqueous processing electrochemical material and energy processes and iron and steel technology non ferrous process principles and production technologies and more The work distills the combined academic experience from the principal editor and the multidisciplinary four member editorial board Provides the entire breadth of process metallurgy in a single work Includes in depth knowledge in all key areas of process metallurgy Approaches the topic from an interdisciplinary perspective providing broad range coverage on topics

**Encyclopedia of Glass Science, Technology, History, and Culture** Pascal Richet,2021-02-05 A comprehensive and up to date encyclopedia to the fabrication nature properties uses and history of glass The Encyclopedia of Glass Science Technology History and Culture has been designed to satisfy the needs and curiosity of a broad audience interested in the most varied aspects of material that is as old as the universe As described in over 100 chapters and illustrated with 1100 figures the practical importance of glass has increased over the ages since it was first man made four millennia ago The old age glass vessels and window and stained glass now

coexist with new high tech products that include for example optical fibers thin films metallic bioactive and hybrid organic inorganic glasses amorphous ices or all solid state batteries In the form of scholarly introductions the Encyclopedia chapters have been written by 151 noted experts working in 23 countries They present at a consistent level and in a self consistent manner these industrial technological scientific historical and cultural aspects Addressing the most recent fundamental advances in glass science and technology as well as rapidly developing topics such as extra terrestrial or biogenic glasses this important guide Begins with industrial glassmaking Turns to glass structure and to physical transport and chemical properties Deals with interactions with light inorganic glass families and organically related glasses Considers a variety of environmental and energy issues And concludes with a long section on the history of glass as a material from Prehistory to modern glass science The Encyclopedia of Glass Science Technology History and Culture has been written not only for glass scientists and engineers in academia and industry but also for material scientists as well as for art and industry historians It represents a must have comprehensive guide to the myriad aspects this truly outstanding state of matter



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