


FUNDAMENTALS OF INTERFACIAL ENGINEERING

**ROBERT J. STOKES
D. FENNELL EVANS**

 **WILEY-VCH**

Fundamentals Of Interfacial Engineering

Leslie H. Sperling



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Fundamentals of Interfacial Engineering Robert J. Stokes, D. Fennell Evans, 1996-12-27 Fundamentals of Interfacial Engineering provides chemical electronic mechanical and biomedical engineers with a coherent integrated introduction to the fundamental concepts that relate to interfacial phenomena with applications to different processes and product situations This book emphasizes the importance of intermolecular forces in holding materials together within a bulk phase or across an interface It outlines the fundamental intermolecular interactions that occur in all interfacial systems The work also describes the properties processing and behavior of fluid interfacial systems and treats solid surfaces and interfaces In addition to being of direct industrial relevance this book will provide engineering instructors with an excellent starting point for planning curriculum development in this important area

An Introduction to Interfacial Engineering Gerardus Joseph Maria Koper, 2007 An Introduction to Interfacial Engineering, 2011 *Interfacial Engineering for Optimized Properties: Volume 458* Clyde L. Briant, C. Barry Carter, Ernest L. Hall, 1997-07-08 The study of interfaces is one of the oldest areas of research in materials science The presence of grain boundaries in materials has long been recognized as has its crucial role in determining mechanical properties Another long recognized concept is that the properties of a surface are quite different from those of the bulk In recent years researchers have been able to study these interfaces both internal and external with a detail not before possible These advances have stemmed from the ability to obtain atomic resolution images of interfaces to measure accurate chemical compositions of interfaces and to model these interfaces and their properties This volume goes a step further beyond structural and chemical studies to explore how all of this information can be used to engineer interfaces for improved properties and overall improved material performance Significant attention is given to the crystallographic nature of grain boundaries and interfaces and the relationship between this nature and the performance of a material The versatility of electron back scattering pattern analysis EBSD in solving a number of interface related problems is also featured

Introduction to Physical Polymer Science Leslie H. Sperling, 2015-02-02 An Updated Edition of the Classic Text Polymers constitute the basis for the plastics rubber adhesives fiber and coating industries The Fourth Edition of Introduction to Physical Polymer Science acknowledges the industrial success of polymers and the advancements made in the field while continuing to deliver the comprehensive introduction to polymer science that made its predecessors classic texts The Fourth Edition continues its coverage of amorphous and crystalline materials glass transitions rubber elasticity and mechanical behavior and offers updated discussions of polymer blends composites and interfaces as well as such basics as molecular weight determination Thus interrelationships among molecular structure morphology and mechanical behavior of polymers continue to provide much of the value of the book Newly introduced topics include Nanocomposites including carbon nanotubes and exfoliated montmorillonite clays The structure motions and functions of DNA and proteins as well as the interfaces of polymeric biomaterials with living organisms The glass transition behavior of nano thin plastic films In

addition new sections have been included on fire retardancy friction and wear optical tweezers and more

Introduction to Physical Polymer Science Fourth Edition provides both an essential introduction to the field as well as an entry point to the latest research and developments in polymer science and engineering making it an indispensable text for chemistry chemical engineering materials science and engineering and polymer science and engineering students and professionals

Physical Metallurgy and Advanced Materials R. E. Smallman, A.H.W. Ngan, 2011-02-24 Physical Metallurgy and Advanced Materials is the latest edition of the classic book previously published as Modern Physical Metallurgy and Materials Engineering Fully revised and expanded this new edition is developed from its predecessor by including detailed coverage of the latest topics in metallurgy and material science It emphasizes the science production and applications of engineering materials and is suitable for all post introductory materials science courses This book provides coverage of new materials characterization techniques including scanning tunneling microscopy STM atomic force microscopy AFM and nanoindentation It also boasts an updated coverage of sports materials biomaterials and nanomaterials Other topics range from atoms and atomic arrangements to phase equilibria and structure crystal defects characterization and analysis of materials and physical and mechanical properties of materials The chapters also examine the properties of materials such as advanced alloys ceramics glass polymers plastics and composites The text is easy to navigate with contents split into logical groupings fundamentals metals and alloys nonmetals processing and applications It includes detailed worked examples with real world applications along with a rich pedagogy comprised of extensive homework exercises lecture slides and full online solutions manual coming Each chapter ends with a set of questions to enable readers to apply the scientific concepts presented as well as to emphasize important material properties Physical Metallurgy and Advanced Materials is intended for senior undergraduates and graduate students taking courses in metallurgy materials science physical metallurgy mechanical engineering biomedical engineering physics manufacturing engineering and related courses Renowned coverage of metals and alloys plus other materials classes including ceramics and polymers Updated coverage of sports materials biomaterials and nanomaterials Covers new materials characterization techniques including scanning tunneling microscopy STM atomic force microscopy AFM and nanoindentation Easy to navigate with contents split into logical groupings fundamentals metals and alloys nonmetals processing and applications Detailed worked examples with real world applications Rich pedagogy includes extensive homework exercises

Materials Processing Lorraine F. Francis, 2024-04-25 Materials Processing A Unified Approach to Processing of Metals Ceramics and Polymers Second Edition is the first textbook to bring the fundamental concepts of materials processing together in a unified approach that highlights the overlap in scientific and engineering principles It teaches students the key principles involved in the processing of engineering materials specifically metals ceramics and polymers from starting or raw materials through to the final functional forms Its self contained approach is based on the state of matter most central to the shaping of the material melt solid powder dispersion and solution and vapor

With this approach students learn processing fundamentals and appreciate the similarities and differences between the materials classes This fully updated edition includes expanded coverage on additive manufacturing as well as adding a new section on machining The organization has been modified and a greater emphasis has been placed on the fundamentals of processing and manufacturing methods This book can be utilized by upper level undergraduates and beginning graduate students in Materials Science and Engineering who are already schooled in the structure and properties of metals ceramics and polymers and are ready to apply their knowledge to materials processing It will also appeal to students from other engineering disciplines who have completed an introductory materials science and engineering course Includes comprehensive coverage on the fundamental concepts of materials processing Provides coverage of metals ceramics and polymers in one text Presents examples of both standard and newer additive manufacturing methods throughout Gives students an overview on the methods that they will likely encounter in their careers *Pharmaceutical Process Scale-Up* Michael Levin, 2001-12-12 Focusing on scientific and practical aspects of process scale up this resource details the theory and practice of transferring pharmaceutical processes from laboratory scale to the pilot plant and production scale It covers parenteral and nonparenteral liquids and semi solids products derived from biotechnology dry blending and powder handling

Ceramic Materials C. Barry Carter, M. Grant Norton, 2007-04-04 Ceramic Materials Science and Engineering is an up to date treatment of ceramic science engineering and applications in a single integrated text Building on a foundation of crystal structures phase equilibria defects and the mechanical properties of ceramic materials students are shown how these materials are processed for a broad diversity of applications in today s society Concepts such as how and why ions move how ceramics interact with light and magnetic fields and how they respond to temperature changes are discussed in the context of their applications References to the art and history of ceramics are included throughout the text The text concludes with discussions of ceramics in biology and medicine ceramics as gemstones and the role of ceramics in the interplay between industry and the environment Extensively illustrated the text also includes questions for the student and recommendations for additional reading KEY FEATURES Combines the treatment of bioceramics furnaces glass optics pores gemstones and point defects in a single text Provides abundant examples and illustrations relating theory to practical applications Suitable for advanced undergraduate and graduate teaching and as a reference for researchers in materials science Written by established and successful teachers and authors with experience in both research and industry *Solid-Liquid Two Phase Flow* Sümer M. Peker, Serife S. Helvacı, 2011-04-18 This book is an undertaking of a pioneering work of uniting three vast fields of interfacial phenomena rheology and fluid mechanics within the framework of solid liquid two phase flow No wonder much finer books will be written in the future as the visionary aims of many nations in combining molecular chemistry biology transport and interfacial phenomena for the fundamental understanding of processes and capabilities of new materials will be achieved Solid liquid systems where solid particles with a wide range of physical properties sizes ranging

from nano to macro scale and concentrations varying from very dilute to highly concentrated are suspended in liquids of different rheological behavior flowing in various regimes are taken up in this book Interactions among solid particles in molecular scale are extended to aggregations in the macro scale and related to settling flow and rheological behavior of the suspensions in a coherent sequential manner The classical concept of solid particles is extended to include nanoparticles colloids microorganisms and cellular materials The flow of these systems is investigated under pressure electrical magnetic and chemical driving forces in channels ranging from macro scale pipes to micro channels Complementary separation and mixing processes are also taken under consideration with micro and macro scale counterparts Up to date including emerging technologies Coherent sequential approach Wide scope microorganisms nanoparticles polymer solutions minerals wastewater sludge etc All flow conditions settling and non settling particles non Newtonian flow etc Processes accompanying conveying in channels such as sedimentation separation mixing

NanoScience in Biomedicine Donglu Shi,2010-07-05

NanoScience in Biomedicine provides up to date information in the frontier fields of nano biomedicine focusing on basic concepts and recent developments in many topical areas including particular nanomaterials synthesis field emission of carbon nanotubes flexible dye sensitized nano porous films magnetic nanofluids and intrinsically electroconducting nanoparticles Novel methods of synthesizing nanoscale biomaterials and their applications in biomedicine are also included such as nano sized materials for drug delivery bioactive molecules for regenerative medicine nanoscale mechanisms for assembly of biomaterials and nanostructured materials constructed from polypeptides This book is organized in three parts Part I introduces most recent developments in all aspects of design synthesis properties and applications of nanoscale biomaterials Part II focuses on novel nanotechnologies in biomedicine Part III includes some of the new developments of nanomaterials synthesis and recent studies on nanostructure properties relationships The book comprehensively addresses the most critical issues in a tutorial manner so that technical non specialists and students in both biomedical sciences and engineering will be able to benefit All chapters are contributed by internationally recognized scholars Dr Donglu Shi is a professor at the Chemical and Materials Engineering Department University of Cincinnati USA

Nanostructured Soft Matter A.V. Zvelindovsky,2007-07-27 This book provides an interdisciplinary overview of a new and broad class of materials under the unifying name Nanostructured Soft Matter It covers materials ranging from short amphiphilic molecules to block copolymers proteins colloids and their composites microemulsions and bio inspired systems such as vesicles

Colloid and Interface Science Pallab Ghosh,2009 Provides a thorough understanding of the fundamental concepts and applications of colloid and interface science It deals with the colloid chemistry and interfacial phenomena at both fluid fluid and solid fluid interfaces The emerging areas of colloid and interface science such as nanomaterials and nanotechnology are also discussed

Biofilms in Medicine, Industry and Environmental Biotechnology Piet Lens,V. O'Flaherty,A. P. Moran,P. Stoodley,T. Mahony,2003-04-30 Biofilms are of great practical importance for beneficial technologies such as water and wastewater

treatment and bioremediation of groundwater and soil In other settings biofilms cause severe problems for example in 65% of bacterial infections currently treated by clinicians particularly those associated with prosthetics and implants accelerated corrosion in industrial systems oil souring and biofouling Until recently the structure and function of biofilms could only be inferred from gross measures of biomass and metabolic activity This limitation meant that investigators involved in biofilm research and application had only a crude understanding of the microbial ecology physical structure and chemical characteristics of biofilms Consequently opportunities for the exploitation and control of biofilms were very limited The past decade has witnessed the development of several new techniques to elucidate the structure and function of biofilms Examples include the use of molecular probes that identify different microbes in complex communities as well as their metabolic functions the use of microsensors that show concentration gradients of key nutrients and chemicals the use of confocal laser scanning microscopy to describe the physical structure of biofilms and the development of a new generation of mathematical models that allow for the prediction of biofilm structure and function However much progress remains to be made in efforts to understand control and exploit biofilms This timely book will introduce its readers to the structure and function of biofilms at a fundamental level as determined during the past decade of research including Extracellular polymers as the biofilm matrix Biofilm phenotype differential gene expression interspecies signalling Biofilm ecology Biofilm monitoring Resistance of biofilms to antimicrobial agents and Biofilm abatement Biofilms in Medicine Industry and Environmental Technology offers a holistic and multi disciplinary description of the topic including biofilm formation and composition but also biofilm monitoring disinfection and control All these aspects are presented from three points of views medical industrial and environmental biotechnological in a compact easy to read format *Directory of Federal Laboratory & Technology Resources* ,1993 Cleaning Technology in Semiconductor Device Manufacturing VIII Jerzy Rużyło,2004

ISTFA 2017: Proceedings from the 43rd International Symposium for Testing and Failure Analysis ASM

International,2017-12-01 The theme for the November 2017 conference was Striving for 100% Success Rate Papers focus on the tools and techniques needed for maximizing the success rate in every aspect of the electronic device failure analysis process *Nanomedicine* Kenneth A. Howard,Thomas Vorup-Jensen,Dan Peer,2016-05-27 This title is a comprehensive text that addresses key aspects of nanomedicine such as properties occurring at the nanoscale that have unique medical effects great molecular knowledge of the human body and disease processes and apparent clinical translation as opposed to narrow insufficient texts that address only a few topics and attempt to rebrand established drug delivery It will clearly define the field which is needed due to the immaturity and broad nature of the field The book is aligned with both the USA and European roadmaps for nanomedicine and will address initiatives taken in Asia that ensures timely and relevant content In depth chapters ensure each section is adequately covered The nanopharmaceutical section focuses on novel drug delivery systems relevant to nanomedicine and the book has an extensive section on immune recognition at the nanoscale which has

implications for in vivo applications of nanomedicines **Chemical Electrostatics** Fernando Galembeck, Thiago A. L. Burgo, 2017-03-09 This book provides new clues for understanding electrostatic charging in solids and liquids resulting from the surge of research in this active area of science that is taking place since the 1990 s but is still largely unknown to most researchers lecturers and engineers Written by a leading researcher in this field this book describes the formation and properties of the Earth capacitor the production of environmental electricity and its effect on natural and anthropic systems and examines many situations in which water may play a decisive role in electrostatic behavior The authors present an informed critique of the long held assumption that pure substances should be electroneutral In this regard the authors show that charge partition and accumulation is expected considering the electrochemical potential under non zero electrostatic potential which prevails at Earth surface This book provides conceptual tools to guide the reader through the complexities and consequences of electrostatic phenomena while covering exciting current topics such as energy scavenging from the environment electrostatic based green production energy saving processes electrochemistry at the solid gas interface therapeutic electrostatic treatments applications in sanitation and pest control and control of atmospheric electricity and its use in climate engineering *Cleaning Technology in Semiconductor Device Manufacturing ...* ,2003

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