PARTICLE ADHESION: APPLICATIONS AND ADVANCES





Edited by David J. Quesnel Donald S. Rimai and Louis H. Sharpe **Particle Adhesion Applications And Advances**

Huachao Yang,Kok Hoe Wong

Particle Adhesion Applications And Advances:

Particle Adhesion David J. Quesnel, Ronald S. Rimai, Louis H. Sharpe, 2002-02-07 Whenever a curved surface interacts with another surface the principles of adhesion are at work From the cells in your body to the dust on your glasses intermolecular forces cause materials to attract one another Elastic deformations resulting from these adhesive interactions store strain that can be liberated during particle detachment Time dependent changes in adhesion can result from plastic deformation that both increases the real effective contact area and reduces the stored energy available to assist in particle removal Processes such as these based on the fundamentals tenets of particle adhesion are now finding applications across many disciplines leading to a rich and rapid development of knowledge This book documents the use of particle adhesion concepts in a variety of disciplines Fields as varied as the cleaning of semiconductors to the controlling of cancer metastasis to the abatement of environmental pollution all benefit from applications of particle adhesion concepts Particle Adhesion and Removal K. L. Mittal, Ravi Jaiswal, 2015-01-06 The book provides a comprehensive and easily accessible reference source covering all important aspects of particle adhesion and removal The core objective is to cover both fundamental and applied aspects of particle adhesion and removal with emphasis on recent developments Among the topics to be covered include 1 Fundamentals of surface forces in particle adhesion and removal 2 Mechanisms of particle adhesion and removal 3 Experimental methods e g AFM SFA SFM IFM etc to understand particle particle and particle substrate interactions 4 Mechanics of adhesion of micro and nanoscale particles 5 Various factors affecting particle adhesion to a variety of substrates 6 Surface modification techniques to modulate particle adhesion 7 Various cleaning methods both wet dry for particle removal 8 Relevance of particle adhesion in a host of technologies ranging from simple to ultra sophisticated

Particle Adhesion and Removal K. L. Mittal, Ravi Jaiswal, 2015-02-02 The book provides a comprehensive and easily accessible reference source covering all important aspects of particle adhesion and removal The core objective is to cover both fundamental and applied aspects of particle adhesion and removal with emphasis on recent developments Among the topics to be covered include 1 Fundamentals of surface forces in particle adhesion and removal 2 Mechanisms of particle adhesion and removal 3 Experimental methods e g AFM SFA SFM IFM etc to understand particle particle and particle substrate interactions 4 Mechanics of adhesion of micro and nanoscale particles 5 Various factors affecting particle adhesion to a variety of substrates 6 Surface modification techniques to modulate particle adhesion 7 Various cleaning methods both wet dry for particle removal 8 Relevance of particle adhesion in a host of technologies ranging from simple to ultra sophisticated 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

Developments in Surface Contamination and Cleaning, Volume 4 Rajiv Kohli,Kashmiri L. Mittal,2011-09-26 In this series Rajiv Kohli and Kash Mittal have brought together the work of experts from different industry sectors and backgrounds to provide a state of the art survey and best practice guidance for scientists and engineers engaged in surface cleaning or handling the consequences of surface contamination The expert contributions in this volume cover important fundamental aspects of surface contamination that are key to understanding the behavior of specific types of contaminants This understanding is essential to develop preventative and mitigation methods for contamination control The coverage complements the treatment of surface contamination in vol 1 Fundamental and Applied Aspects This volume covers Sources

and Generation of Particles Manipulation Techniques for Particles on Surfaces Particle Deposition and Rebound Particle Behavior in Liquid Systems Biological and Metallic Contamination and includes a comprehensive list of current standards and resources Comprehensive coverage of innovations in surface contamination and cleaning Written by established experts in the contamination and cleaning field Each chapter is a comprehensive review of the state of the art Case studies included

Advanced Surface Coating Techniques for Modern Industrial Applications Roy, Supriyo, Bose, Goutam Kumar, 2020-09-18 In engineering there are often situations in which the material of the main component is unable to sustain long life or protect itself from adverse operating environments Moreover in some cases different material properties such as anti friction and wear anti corrosive thermal resistive super hydrophobic etc are required as per the operating conditions If those bulk components are made of such materials and possess those properties the cost will be very high In such cases a practical solution is surface coating which serves as a protective barrier to the bulk material from the adverse environment In the last decade with enormous effort researchers and scientists have developed suitable materials to overcome those unfavorable operating conditions and they have used advanced deposition techniques to enhance the adhesion and surface texturing of the coatings Advanced Surface Coating Techniques for Modern Industrial Applications is a highly sought reference source that compiles the recent research trends in these new and emerging surface coating materials deposition techniques properties of coated materials including anti corrosive materials and nanomaterials 2 coating methods including thermal spray and electroless disposition and 3 applications such as surface engineering and thin film application. The book is ideal for engineers scientists researchers academicians and students working in fields like material science mechanical engineering tribology chemical and corrosion science bio medical engineering biomaterials and aerospace engineering

Advanced Energy Materials and Their Application in Devices and Systems Huachao Yang,Kok Hoe Wong,2024-10-26 This book provides insights into cutting edge developments in energy materials devices and systems as presented at the International Conference on Advanced Energy Materials Devices and Systems AEMDS 2024 in Ningbo China from June 28 to 29 2024 Focusing on the global demand for high performance energy storage devices the conference explores advancements in materials crucial for their development AEMDS 2024 serves as a platform for discussions on experimental breakthroughs ongoing developments and practical applications in the field Keynote and invited speakers from the global energy domain contribute to a dynamic exchange of ideas promoting a deeper understanding of emerging energy materials and their applications across various research fields Advances in Engineering Research and Application Duy Cuong Nguyen,Do Trung Hai,Ngoc Pi Vu,Banh Tien Long,Horst Puta,Kai-Uwe Sattler,2024-08-15 This book covers the International Conference on Engineering Research and Applications ICERA 2023 which was held on December 1 2 2023 at Thai Nguyen University of Technology in Thai Nguyen Vietnam and provided an international forum to disseminate information on latest theories and practices in engineering research and applications The conference focused on original research work in areas including mechanical engineering materials and mechanics of materials mechatronics and micro mechatronics automotive engineering electrical and electronics engineering information and communication technology By disseminating the latest advances in the field the proceedings of ICERA 2023 Advances in Engineering Research and Application assists academics and professionals alike to reshape their thinking on sustainable development Composites and Advanced Materials for Industrial Applications Kumar, K., Davim, J. Paulo, 2018-05-25 The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology By better understanding the components and structures of materials researchers can increase their applications across different industries Composites and Advanced Materials for Industrial Applications is a critical scholarly resource that examines recent advances in the field of application of composite materials Featuring coverage on a broad range of topics such as nanocomposites hybrid composites and fabrication techniques this book is a vital reference source for engineers academics researchers students professionals and practitioners seeking current research on improvements in manufacturing processes and developments of new analytical and testing methods Polymorphism in the Pharmaceutical Industry Rolf Hilfiker, Markus von Raumer, 2018-12-14 Polymorphism in the Pharmaceutical Industry Solid Form and Drug Development highlights the relevance of polymorphism in modern pharmaceutical chemistry with a focus on quality by design QbD concepts It covers all important issues by way of case studies ranging from properties and crystallization via thermodynamics analytics and theoretical modelling right up to patent issues As such the book underscores the importance of solid state chemistry within chemical and pharmaceutical development It emphasizes why solid state issues are important the approaches needed to avoid problems and the opportunities offered by solid state properties. The authors include true polymorphs as well as solvates and hydrates while providing information on physicochemical properties crystallization thermodynamics guantum mechanical modelling and up scaling Important analytical tools to characterize solid state forms and to quantify mixtures are summarized and case studies on solid state development processes in industry are also provided Written by acknowledged experts in the field this is a high quality reference for researchers project managers and quality assurance managers in pharmaceutical agrochemical and fine chemical companies as well as for academics and newcomers to organic solid state chemistry Polymeric Nano-Biomaterials for Medical Applications: Advancements in Developing and Implementation Considering Safety-By-Design Concepts Gerrit Borchard, Olga Borges, Vasile Ostafe, Giuseppe Perale, Claudia Som, Peter Wick, Manfred Zinn, 2020-12-22 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings

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the book reviews the main areas of laser processing Starting with laser cutting and machining the book discusses laser welding annealing and hardening It then considers surface treatment coating and materials deposition as well as other engineering techniques such as peening and net shape engineering before discussing laser micro and nano fabrication techniques The book concludes by looking at modelling and process control With its distinguished editorial team and contributions from renowned researchers working in every corner of the globe Advances in laser materials processing provides a comprehensive yet detailed coverage of the many topics that comprise the field of laser materials processing It provides a reference source for the scientists and engineers in such areas as metals processing and microelectronics as well those conducting laser materials processing research in either academia or industry A comprehensive practitioner guide and reference work explaining state of the art laser processing technologies in manufacturing and other disciplines Explores the challenges potential and future directions through the continuous development of new application specific lasers in materials processing Discusses coatings and material deposition with lasers with including the production of coatings by laser assisted processes laser direct metal deposition and laser induced forward transfer LIFT **Advanced Materials for Printed** Flexible Electronics Colin Tong, 2021-10-04 This book provides a comprehensive introduction to printed flexible electronics and their applications including the basics of modern printing technologies printable inks performance characterization device design modeling and fabrication processes A wide range of materials used for printed flexible electronics are also covered in depth Bridging the gap between the creation of structure and function printed flexible electronics have been explored for manufacturing of flexible stretchable wearable and conformal electronics device with conventional 3D and hybrid printing technologies Advanced materials such as polymers ceramics nanoparticles 2D materials and nanocomposites have enabled a wide variety of applications such as transparent conductive films thin film transistors printable solar cells flexible energy harvesting and storage devices electroluminescent devices and wearable sensors This book provides students researchers and engineers with the information to understand the current status and future trends in printed flexible electronics and acquire skills for selecting and using materials and additive manufacturing processes in the design of printed flexible electronics Multiscale Modeling of Vascular Dynamics of Micro- and Nano-particles Huilin Ye, Zhigiang Shen, Ying Li,2020-01-02 Recent advances witness the potential to employ nanomedicine and game changing methods to deliver drug molecules directly to diseased sites To optimize and then enhance the efficacy and specificity the control and guidance of drug carriers in vasculature has become crucial Current bottlenecks in the optimal design of drug carrying particles are the lack of knowledge about the transport of particles adhesion on endothelium wall and subsequent internalization into diseased cells To study the transport and adhesion of particle in vasculature the authors have made great efforts to numerically investigate the dynamic and adhesive motions of particles in the blood flow This book discusses the recent achievements from the establishment of fundamental physical problem to development of multiscale model and finally large scale

simulations for understanding transport of particle based drug carriers in blood flow Recent advances in crop protection P.Parvatha Reddy, 2012-09-14 In the recent years the need to increase food production to meet the demands of rapidly increasing population from a limited land resource necessitated the use of intensive farming systems with the inputs like narrow genetic base high dose of fertilizers pesticides irrigation monocropping etc which led to the development of diseases and pest The effect of changing global climate particularly the sharp increase in CO2 concentration has increased the susceptibility of plants to pathogens and pests Because of the chemicalization of agriculture the age old eco friendly pest management practices like sanitation crop rotation mixed cropping adjustment of date of planting fallowing summer ploughing green manuring composting etc are not being practiced affecting the crops adversely This has encouraged researchers to look for eco friendly and novel approaches for pest management The information on recent advances in crop protection involving bacteria fungi nematodes insects mites and weeds is scattered The book delves upon the most latest developments in crop protection such as avermectins bacteriophages biofumigation biotechnological approaches bio priming of seeds disguising the leaf surface use of non pathogenic strains plant defense activators plant growth promoting rhizobacteria pathogenesis related proteins strobilurin fungicides RNA interference and variety of mixtures cultivar mixtures multilines soil solarization biointensive integrated pest management among several others fusion protein based biopesticides seed mat technology and environmental methods This book is a ready reference for students policy makers scientists researchers and extension workers

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