PARTICLE ADHESION: APPLICATIONS AND ADVANCES



Edited by David J. Quesnel Donald S. Rimai and Louis H. Sharpe



Particle Adhesion Applications And Advances

Rajiv Kohli, K. L. Mittal

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 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 q 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 Developments in Surface Contamination and Cleaning Rajiv Kohli, Kashmiri L. Mittal, 2008-01-10 class experts in the field 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, K. L. Mittal, 2011-10-24 The contributions in this volume cover methods for removal of particle contaminants on surfaces Several of these methods are well established and have been employed in industrial applications for a long time However the ever higher demand for removal of smaller particles on newer substrate materials is driving continuous development of the established cleaning methods and alternative innovative methods for particle removal This book provides information on the latest developments in this topic area The purpose of the Developments in Surface Contamination and Cleaning series is to provide a state of the art guide to the current knowledge of the behaviour of film type and particulate surface contaminants and cleaning methods Each title has a particular topical focus covering the key techniques and recent developments in the area Taken as a whole the series forms a unique reference for professionals and academics working in the area of surface contamination and cleaning A strong theme running through the series is that of surface contamination and cleaning at the micro and nano scales Covers the latest techniques in areas such as removal of nanoparticles especially important in the semiconductor industry disk drives and microelectronics. The series as a whole represents the definitive reference on Surface Contamination and Cleaning An essential reference for industries where cleaning is critical electronics optics pharmaceutical manufacturing etc 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 and their applications in various engineering and industrial fields The book particularly focuses on 1 coating 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 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 quantum 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 and historical advances in a hot research area Find out more on how to host your own

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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 **Developments in Surface Contamination and Cleaning**, Volume 8 Rajiv Kohli, Kashmiri L. Mittal, 2014-11-19 As device sizes in the semiconductor industries shrink devices become more vulnerable to smaller contaminant particles and most conventional cleaning techniques employed in the industry are not effective at smaller scales The book series Developments in Surface Contamination and Cleaning as a whole provides an excellent source of information on these alternative cleaning techniques as well as methods for characterization and validation of surface contamination Each volume has a particular topical focus covering the key techniques and recent developments in the area Several novel wet and dry surface cleaning methods are addressed in this Volume Many of these methods have not been reviewed previously or the previous reviews are dated These methods are finding increasing commercial application and the information in this book will be of high value to the reader Edited by the leading experts in small scale particle surface contamination cleaning and cleaning control these books will be an invaluable reference for researchers and engineers in R D manufacturing quality control and procurement specification situated in a multitude of industries such as aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography Provides 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 Addresses the continuing trends of shrinking device size and contamination vulnerability in a range of industries spearheaded by the semiconductor industry and others Covers novel wet and dry surface cleaning methods of increasing commercial importance Advances in Nanotechnology Research and Application: 2012 Edition, 2012-12-26 Advances in Nanotechnology Research and Application 2012 Edition is a Scholarly Editions eBook that delivers timely authoritative and comprehensive information about Nanotechnology The editors have built Advances in Nanotechnology Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Nanotechnology in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Nanotechnology Research and Application 2012 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com Advances in Laser Materials Processing Jonathan R. Lawrence, 2010-07-27 Because of its capacity for continuous development and flexibility of use the laser has become a mainstream manufacturing tool in many industrial sectors This timely book relays the

state of the art in laser materials processing technology and applications and likely advances to be made from current research taking place around the world The book also promotes appreciation for laser applications in a variety of industrial sectors After two introductory chapters 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 quide 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 Advances in Fire Retardant Coatings Raj Kumar Arya, George D. Verros, 2025-08-11 Advances in Fire Retardant Coatings provides a concise yet comprehensive overview of the latest innovations in fire resistant technologies Starting with an introduction to the role of fire retardant coatings in safety the book progresses into advanced polymer formulations designed to resist flames more effectively It explores multifunctional coatings that offer additional protective benefits alongside innovations in application techniques that enhance their effectiveness Real world industrial applications highlight how these coatings are being utilized across various sectors for improved fire safety. The book also addresses environmental and sustainability considerations reflecting the industry s shift toward eco friendly solutions In its final chapter it discusses emerging trends and future directions in fireproofing technologies providing insights into the next generation of fire protection This book is an essential resource for researchers engineers and professionals looking to stay updated on advancements in fire safety materials and technologies Advanced Ceramic Coatings for Biomedical Applications Ram K. Gupta, Amir Motallebzadeh, Saeid Kakooei, Tuan Anh Nguyen, Ajit Behera, 2023-06-23 Advanced Ceramic Coatings for Biomedical Applications covers tissue engineering scaffolds implant and dental application wound healing and adhesives The book is one of four volumes that together provide a comprehensive resource in the field of Advanced Ceramic Coatings also including titles covering fundamentals manufacturing and classification energy applications and emerging applications This books will be extremely useful for academic and industrial researchers and practicing engineers who need to find reliable and up to date information about recent progresses and new developments in the field of advanced ceramic

coatings It will also be of value to early career scientists providing background knowledge to the field Smart ceramic coatings containing multifunctional components are now finding application in transportation and automotive industries in electronics and energy sectors in aerospace and defense and in industrial goods and healthcare Their wide application and stability in harsh environments are only possible due to the stability of the inorganic components used Ceramic coatings are typically silicon nitride chromia hafnia alumina alumina magnesia silica silicon carbide titania and zirconia based compositions The increased demand for these materials and their application in energy transportation and the automotive industry are considered to be the main drivers Provides comprehensive coverage of biomedical applications of advanced ceramic coatings Covers basic principles of surface chemistry and the fundamentals of ceramic materials and engineering Features the latest progress and recent technological developments Includes comparisons to other coating types e q polymers metals and enamel to demonstrate the potential limitations and differences Contains extensive case studies and worked examples Developments in Surface Contamination and Cleaning: Methods for Surface Cleaning Rajiv Kohli, Kashmiri L. Mittal, 2016-11-04 Developments in Surface Contamination and Cleaning Methods for Surface Cleaning Volume 9 part of the Developments in Surface Contamination and Cleaning series provide a state of the art guide to the current knowledge on the behavior of film type and particulate surface contaminants and their associated cleaning methods This newest volume in the series discusses methods of surface cleaning of contaminants and the resources that are needed to deal with them Taken as a whole the series forms a unique reference for professionals and academics working in the area of surface contamination and cleaning A strong theme running through the series is that of surface contamination and cleaning at the micro and nano scales Provides a comprehensive coverage of innovations in surface cleaning Written by established experts in the surface cleaning field presenting an authoritative resource Contains a comprehensive review of the state of the art including case studies to enhance the learning process **Advances in Nanotechnology Research and Application: 2011 Edition** ,2012-01-09 Advances in Nanotechnology Research and Application 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Nanotechnology The editors have built Advances in Nanotechnology Research and Application 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Nanotechnology in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Nanotechnology Research and Application 2011 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com

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