

1. Record Nr.	UNINA9910132296303321
Titolo	Particle adhesion and removal // edited by K. L. Mittal and Ravi Jaiswal
Pubbl/distr/stampa	Hoboken, New Jersey : , : Scrivener Publishing, , 2015 ©2015
ISBN	1-118-83154-3 1-118-83157-8 1-118-83155-1
Descrizione fisica	1 online resource (936 p.)
Collana	Adhesion and Adhesives : Fundamental and Applied Aspects
Disciplina	530.4/17
Soggetti	Adhesion Particles Powders Surfaces (Technology) Dust - Removal Cleaning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Half Title page; Title page; Copyright page; Preface; Acknowledgements; Part 1: Particle Adhesion: Fundamentals; Chapter 1: Fundamental Forces in Particle Adhesion; 1.1 Introduction; 1.2 Various Forces in Particle Adhesion; 1.3 Summary; References; Chapter 2: Mechanics of Particle Adhesion and Removal; 2.1 Introduction; 2.2 Models; 2.3 Simulations Results; 2.4 Summary and Conclusions; Acknowledgements; References; Chapter 3: Microscopic Particle Contact Adhesion Models and Macroscopic Behavior of Surface Modified Particles; 3.1 Introduction; 3.2 Constitutive Contact Models 3.3 Macroscopic Powder Behavior - Continuum Mechanics Approach3.4 Surface Modification to Alter the Adhesion Properties; 3.5 Experimental Measurements of the Adhesion Forces; 3.6 Summary and Conclusions; Acknowledgements; List of Symbols; References; Chapter 4: Characterization of Single Particle Adhesion: A Review of Recent Progress; 4.1 Introduction; 4.2 Background; 4.3 Recent Developments;

4.4 Conclusions and Remarks; Acknowledgments; List of Symbols; References; Part 2: Particle Removal Techniques; Chapter 5: High Intensity Ultrasonic Cleaning for Particle Removal; 5.1 Introduction 5.2 Ultrasound and Ultrasonics 5.3 Cavitation Phenomenon; 5.4 Generation of Ultrasound - Transducers; 5.5 Ultrasonic Generators; 5.6 Principles of Ultrasonic Cleaning for Particle Removal; 5.7 Determination of Residual Particles on Surfaces; 5.8 Ultrasonic Aqueous Cleaning Equipment and Process; 5.9 Precision Cleaning; 5.10 Contaminants; 5.11 Ultrasonic Cavitation Forces and Surface Cleaning; 5.12 Cleaning Chemistry; 5.13 Mechanism of Cleaning; 5.14 Cavitation Erosion; 5.15 Summary; References; Chapter 6: Megasonic Cleaning for Particle Removal; 6.1 Introduction 6.2 Principles of Megasonic Cleaning 6.3 Particle Removal Mechanisms During Megasonic Cleaning; 6.4 Types of Megasonic Systems; 6.5 Particle Removal and Feature Damage in Megasonic Cleaning; 6.6 Summary; References; Chapter 7: High Speed Air Jet Removal of Particles from Solid Surfaces; 7.1 Introduction; 7.2 Fundamental Characteristics of the Air Jet; 7.3 Fundamentals of Air Jet Particle Removal; 7.4 New Methods Using Air Jet; 7.5 Summary and Prospect; List of Symbols; References; Chapter 8: Droplet Spray Technique for Particle Removal; 8.1 Introduction; 8.2 Droplet Impact Phenomena 8.3 Cleaning Process Window 8.4 Droplet Spray Technique for Semiconductor Wafer Cleaning; 8.5 Summary; References; Chapter 9: Laser-Induced High-Pressure Micro-Spray Process for Nanoscale Particle Removal; 9.1 Introduction; 9.2 Concept of Droplet Opto-Hydrodynamic Cleaning (DOC); 9.3 Micro-Spray Generation by LIB; 9.4 Mechanisms of Particle Removal by Laser-Induced Spray Jet; 9.5 Generation of Micro-Spray Jet; 9.6 Nanoscale Particle Removal; References; 9.7 Summary; Chapter 10: Wiper-Based Cleaning of Particles from Surfaces; 10.1 Introduction 10.2 Basic Mechanism of Wiping for Cleaning of Particles and Other Contaminants

Sommario/riassunto

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 nano-

2. Record Nr.	UNISA996206131403316
Titolo	Radiología
Pubbl/distr/stampa	[Madrid], : Elsevier España
Edizione	[English edition.]
Descrizione fisica	1 online resource
Disciplina	616.07/57
Soggetti	Medical radiology Diagnostic imaging Radiologia mèdica Imatgeria per al diagnòstic Radiology Fulltext Internet Resources. Periodicals. Periodical
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed

3. Record Nr.	UNINA9910296434803321
Autore	Angetter Daniela
Titolo	Strukturen und Netzwerke : : Medizin und Wissenschaft in Wien 1848-1955 // Daniela Angetter, Herbert Posch, Paul Weindling, Birgit Nemeč, Christiane Druml
Pubbl/distr/stampa	Göttingen, : V&R unipress, 2018 Göttingen : , : Vandenhoeck & Ruprecht, , 2018
Descrizione fisica	1 online resource (851 p.)
Soggetti	History
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	"Die Geschichte der medizinischen Forschung und Praxis in Wien wird erst im Kontext ihrer Strukturen und Netzwerke verständlich. Die Analyse der lokalen und internationalen Beziehungen der »Wiener Medizin« im 19. und 20. Jahrhundert und ihrer Netzwerkstrukturen stellt seit langem ein Forschungsdesiderat dar. Dieser Band erforscht diese Beziehungen mit dem Ziel, die Geschichte medizinischer Forschung und Praxis zu re-kontextualisieren. Die Beiträge beleuchten Mobilität, Wissenstransfer, Standards und Richtlinien, soziale und berufliche Netzwerke, Transformationen politischer und kultureller Konzepte zwischen Zentren der Medizin, wie auch Formen des Austauschs zwischen künstlerischen und medizinischen Sphären und Memorialformen - als transnationale Phänomene sowie in ihrer Prägekraft für medizinische Forschung und Praxis in Wien."