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Nota di contenuto	Front Cover; Developments in Surface Contamination and Cleaning; Copyright; Contents; Preface; About the Editors; Contributors; Chapter 1 - Supersonic Nano-Particle Beam Technique for Removing Nano-Sized Contaminant Particles from Surfaces; 1.Introduction; 2. Theoretical Background; 3.Supersonic Nozzle Beam Technique; 4. Electro spray Technique; 5.Summary; Acknowledgment; References; Chapter 2 -Megasonic Cleaning; 1.Introduction; 2.Cleaning Mechanism; 3.Theory of Megasonic Cleaning; 4.Surface Cleanliness Measurement; 5.Megasonic System Evaluation in the Laboratory and in Industry 6.Industry Case Studies7.Concluding Remarks; References; Chapter 3 - Laser Cleaning for Removal of Nano/Micro-Scale Particles and Film Contamination; 1.Introduction; 2.Dry Particle Removal Technique Requirements; 3.Laser Cleaning Techniques; 4.Future Directions in Laser Particle Removal Research; 5.Conclusions and Remarks; Acknowledgments; References; Chapter 4 -Non-Aqueous Interior Surface Cleaning Using Projectiles; 1.Introduction; 2.Types of Contamination; 3.Effects of Contamination; 4.Fluid Cleanliness Levels; 5.Tube Cleaning Methods; 6.Non-Aqueous Projectile Cleaning Method; 7.Summary AcknowledgmentDisclaimer; References; Chapter 5 -Electrostatic

Removal of Particles and its Applications to Self-Cleaning Solar Panels and Solar Concentrators; 1.Introduction; 2.Solar Power Potential and the Global Energy Needs; 3.Atmospheric Dust and Its Deposition on Solar Panel; 4.Loss of PV Output Power Caused by Dust Deposition; 5. Electrostatic Charging of Dust Particles; 6.Dust Deposition Process: Effects of Size and Charge Distributions; 7.Transmission Loss Due to Atmospheric Dust; 8.Experimental Studies on Solar Panel Obscuration by Dust Deposition
9.Effect of Microstructural Deposition Pattern: Particle Size, Shape, and Electrostatic Charge Distributions
10.Removal of Dust From Solar Panels Using Low-Power Electrodynamical Screens; 11.Trajectories of Charged Particles on the Electrodynamical Screen; 12.Dielectrophoretic Force; 13. Tribocharging of Particles; 14.Removal of Uncharged Conducting Particles; 15.High-Voltage Three-Phase Power Supply for the Electrodynamical Screen; 16.Testing of the Electrodynamical Screen; 17. Measurement of Maximum Power Point Operation of the PV System With EDS
18.Testing the Solar Panels Integrated With EDS for Maximum Power Point Operation
19.Results; 20.Summary and Conclusions; Acknowledgments; References; Chapter 6 -Alternate Semi-Aqueous Precision Cleaning Techniques: Steam Cleaning and Supersonic Gas/Liquid Cleaning Systems; 1.Introduction; 2.Precision Steam Cleaning; 3.Supersonic Gas-Liquid Cleaning; 4.Summary; Acknowledgments; Disclaimer; References; Index

Sommario/riassunto

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. Feature: Comprehensive coverage of innovations in surface contamination a
