

Particles on Surfaces: Detection, Adhesion and Removal, Volume 9 (v. 9)



This volume chronicles the proceedings of the 9th International Symposium on Particles on Surfaces: Detection, Adhesion and Removal held in Philadelphia, PA, June 2004. The study of particles on surfaces is crucially important in a legion of diverse technological areas, ranging from microelectronics to biomedical to space. This volume contains a total of 21 papers covering many ramifications of particles on surfaces, ranging from detection to removal. All manuscripts were rigorously peer-reviewed and revised, and properly edited before inclusion in this book. The topics covered include: imaging and analysis of macro and nanosize particles and surface features; determination of particles on surfaces; laser inactivation on surfaces; laser-assisted nanofabrication on surfaces; post-CMP cleaning process; pre-gate cleaning; solar panel obscuration in the Martian atmosphere; adhesion and friction of microsized particles; microroughness of textile fibers and capture of particles; factors affecting particle adhesion and removal; various techniques for cleaning or removal of particles from different substrates including laser, combination of laser-induced shockwave and explosive vaporization of liquid, attenuated total internal reflection of laser light, CO₂ snow, use of dense phase fluids, use of surfactants and impinging air jet; and removal of sub-100-nm particles.

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AIChE. **Particles on Surfaces: Detection, Adhesion and Removal, Volume 9** Volume 18, Issue 9, 10 September 2008, Pages 1049-1056 . home hygiene [32], for example, the safe removal of bacteria from domestic surfaces. on which a biofilm grows, and can be composed of many particles, organic or inorganic. are employed by the biofilm, and this is collectively termed quorum sensing [52]. **Particles on Surfaces: Detection, Adhesion and Removal, Volume 9** Particles on Surfaces: Detection, Adhesion and Removal, Volume 9: v. 9 - Kindle edition by Kash L. Mittal. Download it once and read it on your Kindle device, **Particles on Surfaces: Detection, Adhesion and Removal, Volume 9** For a single, dielectric, spherical particle with a uniform charge distribution. 2 . 9. 7. Israelachvili Surface Force Apparatus. A. Uses crossed cylinders rather than particles K. L. Mittal, Particles on Surfaces: Detection, Adhesion, and Removal, 1, V. M. Muller, V. S. Yushchenko, and B. V. Derjaguin, J. 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