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List of Contributors; Preface; Tribute to Professor Boris Luk'yanchuk: To Mark his Contributions to XIII Physics on the Occasion of his 60th Birthday; Acknowledgements; CONTENTS; Chapter 1 Laser Cleaning and Surface Modifications: Applications in Nano- and Biotechnology D. Bauerle, T. Gumpenberger, D. Brodoceanu, G. Langer, J. Kofler, J. Heitz and K. Piglmayer; Chapter 2 An Overview of Experimental Research into the Laser Cleaning of Contaminants from Surfaces A. J. Fernandes and D. M. Kane
Chapter 3 Particle on a Surface: About Possible Acoustic and Plasmonics Effects in Dry Laser Cleaning B. S. Luk'yanchuk, Z. B. Wang, Y. Zhou, M. H. Hong, W. D. Song and T. C. Chong
Chapter 4 Axially Symmetric Focusing of Light in Dry Laser Cleaning and Nanopatterning J. Kofler and N. Arnold; Chapter 5 Liquid-Assisted Laser Shock Cleaning for Nanoscale Particle Removal D. Jang, B. Oh and D. Kim; Chapter 6 UV Laser-Induced Dehydroxylation of UV Fused Silica Surfaces A. J. Fernandes, D. M. Kane, B. Gong and R. N. Lamb
Chapter 7 Removal of Silica Microspheres from Glass and Silica Substrates by Dry Laser Cleaning S. Pleasants and D. M. Kane
Chapter 8 The Effect of Pulse Shape on 3D Modeling of Laser Cleaning Fluences S. Pleasants, D. M. Kane and B. S. Luk'yanchuk; Chapter 9 Nanoparticles During Laser Cleaning of Decoration Samples of Sigismund's Chapel S. Barcikowski, J. Walter, A. Ostendorf, R. Ostrowski, J. Marczak and M. Strzelec
Chapter 10 Femtosecond Laser Cleaning of Metallic Antique Artworks - Advantages, Limits and Economic Aspects S. Barcikowski, N. Barsch, T. Burmester, J. Bunte, J. Ulrich, A. Gervais and M. Meier
Chapter 11 Ultrafast Laser Cleaning of Museum Artifacts A. V. Rode, N. R. Madsen, E. G. Gamaly, B. Luther-Davies, K. G. H. Baldwin, D. Hallam, A. Wain and J. Hughes; Chapter 12 Laser Cleaning of Entrance Window During Ultra-Fast Pulsed Laser Deposition N. R. Madsen, A. V. Rode, D. Freeman, V. Z. Kolev and B. Luther-Davies
Chapter 13 Surface Cleaning of Optical Materials Using Novel VUV Sources D. M. Kane, D. Hirschausen, B. K. Ward, R. P. Mildren and R. J. Carman
Chapter 14 Micro- and Nano-Machining with Ultrashort Laser Pulses: From Basic Science to The Real World P. Balling; Chapter 15 Optical Surface Profilometry of Low Reflectance Materials - Evaluation as a Laser Processing Diagnostic D. M. Kane, A. M. Joyce and R. J. Chater

Laser Cleaning II is the second of a series of books reporting research on the use of lasers for cleaning material surfaces and related micro-scale and nano-scale laser processing. It follows Laser Cleaning, edited by Boris Luk'yanchuk, published in 2002. The primary focus is on contaminant particle removal, nano-scale sized particles in particular, which represents a major cleaning challenge in industrial contexts and poses a broad range of research questions. The contributions provide stimulating answers to these questions, spanning the essential areas: the fundamental theoretical and experi