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	 Deposition from the Gas Phase; 3.2.3 Evaporation 3.2.4 Sputtering3.2.5 Chemical Vapor Deposition; 3.2.6 Galvanic Deposition; 3.2.7 Deposition by Spinning (Spin Coating); 3.2.8 Shadow-mask Deposition Techniques; 3.3 Preparation of Ultrathin Inorganic Layers and Surface-bound Nanoparticles; 3.3.1 Ultrathin Layers by Vacuum Deposition Processes; 3.3.2 Deposition of Ultrathin Films from the Liquid Phase; 3.3.3 In Situ Generation of Ultrathin Inorganic Films by Chemical Surface Modification; 3.3.4 In Situ Formation of Ultrathin Inorganic Layers on Heteroorganic Materials; 3.3.5 Immobilization of Nanoparticles 3.3.6 In Situ Formation of Inorganic Nanoparticles3.4 Structure Generation and Fabrication of Lithographic Masks; 3.4.1 Adhesive Mask Technique; 3.4.2 Role of Resist in Photolithography; 3.4.3 Serial Pattern Transfer; 3.4.4 Group Transfer Processes; 3.4.5 Maskless Structure Generation; 3.4.6 Soft Lithography; 3.5 Etching Processes; 3.5.1 Etching Rate and Selectivity; 3.5.2 Isotropic and Anisotropic Etching Processes; 3.5.3 Lithographic Resolution in Etching Processes; 3.5.4 Wet Etching Processes; 3.5.5 Dry Etching Processes; 3.5.6 High-resolution Dry Etching Techniques 3.5.7 Choice of Mask for Nanolithographic Etching Processes; 6.6 Packaging; 3.7 Biogenic and Bioanalogue Molecules in Technical Microstructures; 4 Preparation of Nanostructures; 4.1 Principles of Fabrication; 4.1.1 Subtractive and Additive Creation of Nanostructures; 4.1.2 Nanostructure Generation; 4.2.1 Scaling Down of Mechanical Processing Techniques; 4.2.2 Local Mechanical Cutting Processes; 4.2.3 Surface Transport Methods; 4.2.4 Reshaping Processes 4.2.5 Printing Processes
Sommario/riassunto	This revised and up-to-date translation of the very successful German original accompanies the reader from the introductory level right up to in-depth knowledge, backed by numerous literature references. It begins with the most important fundamentals of microtechnology and chemistry on which an understanding of shaping nanoscale structures is based. It then goes on to describe a variety of examples to illustrate the fabrication of nanostructures from different materials, before presenting readers with a wide range of methods for characterization of the generated structures. Thanks to i