



Measurement Technology for Micro-Nanometer Devices

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Condition: New. Publisher/Verlag: Wiley & Sons | A fully comprehensive examination of state-of-the-art technologies for measurement at the small scale Highlights the advanced research work from industry and academia in micro-nano devices test technology Written at both introductory and advanced levels, provides the fundamentals and theories Focuses on the measurement techniques for characterizing MEMS/NEMS devices | About the Authors ix Preface xi 1 Introduction 11.1 Micro/Nanotechnology 11.1.1 Development of MEMS 11.1.2 Development of NEMS 31.2 Development of Micro/Nanoscale Measurements 51.2.1 Significance 51.2.2 Types of Micro/Nanoscale Measurements 61.2.3 Conclusion and Outlook 7 References 92 Geometry Measurements at the Micro/Nanoscale 112.1 Microvision Measurement 112.1.1 Micro/Nanoscale Plane Geometry Parameter Tests 112.1.2 Integrality Tests and Analysis of Micro/Nanometer Structures 122.1.3 Micro/Nanoscale Plane Dynamic Characteristic Tests 132.2 3D Morphology Measurements in Contact Mode 152.2.1 Scanning Probe Microscopy 152.2.2 Near-Field Scan Optics Microscopy (NSOM) 212.2.3 Scanning Electron Microscopy 262.2.4 Transmission Electron Microscopy 312.3 3D Morphology Optics Measurements with Non-Contact Modes 362.3.1 Laser Scanning Microscopy 372.3.2 White Light Interferometry Morphology Measurements 402.4 Micro/Nanoscale Tricoordinate Measurements 632.4.1 Basics 642.4.2 Experimental Techniques 672.5 Measurement of Film Thickness 71 References 773 Dynamic Measurements at the Micro/Nanoscale 793.1 Stroboscopic Dynamic Vision Imaging 793.1.1 Principles of Plane Dynamic Measurements 803.1.2 Equipment 813.1.3 Block Matching and Phase Correlation Methods 843.1.4...



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