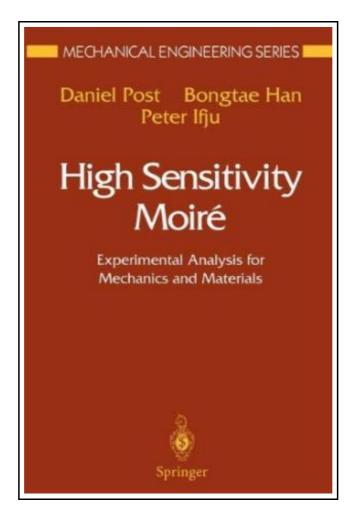
# High Sensitivity Moiré



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(Dr. Nikolas Mayer)

## HIGH SENSITIVITY MOIRSEACUTE;



Book Condition: New. Publisher/Verlag: Springer, Berlin | Experimental Analysis for Mechanics and Materials | This book describes both the theory and practice of physical measurements that use high-sensitivity moire principally moire interferometry. Its focus is on the mechanics and micromechanics of materials and structural elements. Unlike both classical and holographic interferometry, which are best suited for out-of-plane deformation measurements, moire interferometry provides whole-field maps of the in-plane displacements. Normal strains and shear strains are derived directly from the in-plane data. Moire with 2400 lines per mm is typical in practice, yielding a sensitivity of 2.4 moire fringes per micron of displacement. For micromechanics, sensitivity corresponding to 17 nm per fringe contour is demonstrated. Part II is devoted to applications of moire interferometry and microscopic moire interferometry. New studies, not previously published, are included. Diverse fields are addressed: advancedcomposite materials, thermal stresses, electronic packaging, fracture, metallurgy, time-dependence, strain gage calibration. The methods can be applied for whole-field measurements on nearly and solid body. This reader-friendly book should serve engineers and scientists who are concerned with measurements of real phenomena - and it should stimulate students to pursue the treasures of experimental analysis. | 1 Introduction.- 1.1 Our Subject.- 1.2 Scope and Style.- 1.3 History.- 1.4 Comment on Exercises.- 1.5 References.- I.- 2 Elements of Optics.- 2.1 The Nature of Light.- - More Details.- -Metallic Reflection.- - Dielectric Reflection.- - Refraction.- 2.2 Optical Elements.- - Light Sources.- - Wedges, Prisms, Mirrors.- - Partial Mirrors.- - Antireflection Coatings.- - Lenses.- - Laser-beam Expander, Spatial Filter, Optical Fibers. - - Parabolic Mirrors. - 2.3 Coherent Superposition. - - Pure Two-beam Interference. - - Conservation of Energy.- - Impure Two-beam Interference.- - Fringe Patterns and Walls of Interference.- - Warped Wave Fronts.- - The Camera.- - Two-beam Interferometers.- - Derivation of the Interference Equations.- - Interference with...



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