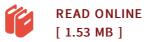




# High Sensitivity Moiré

By Post, Daniel / Han, Bongtae

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...



#### Reviews

A very wonderful book with lucid and perfect answers. It is probably the most incredible book i have study. Its been designed in an exceptionally simple way and is particularly just after i finished reading through this publication by which in fact transformed me, alter the way in my opinion.

-- Macey Schneider

Completely essential read publication. It is really basic but excitement in the fifty percent of the book. You will not really feel monotony at anytime of your respective time (that's what catalogues are for about in the event you ask me).

-- Lexie Paucek PhD

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