

# High Sensitivity Moiré: Experimental Analysis for Mechanics and Materials (Mechanical Engineering Series)

Daniel Post, Bongtae Han, Peter Ifju



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A description of both the theory and practice of physical measurements that use high-sensitivity moiré principally moiré interferometry. The focus here is on the mechanics and micromechanics of materials and structural elements and the book includes new studies published for the first time. Diverse fields are addressed: advanced composite materials, thermal stresses, electronic packaging, fracture, metallurgy, timedependence, strain gage calibration. All the methods can be applied for whole-field measurements on nearly and solid bodies. This reader-friendly book will serve engineers and scientists who are concerned with measurements of real phenomena, while also stimulating students to pursue the treasures of experimental analysis.

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