

Sanichiro Yoshida · Luciano Lamberti  
Cesar Sciammarella *Editors*

# Advancement of Optical Methods in Experimental Mechanics, Volume 3

Proceedings of the 2016 Annual Conference on  
Experimental and Applied Mechanics



# Advancement Optical Methods Experimental Mechanics



**Helena Jin, Cesar  
Sciammarella, Sanichiro  
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## **Advancement Optical Methods Experimental Mechanics:**

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Gary L. Cloud, 1998-05-28 Fundamental measurement problems in engineering mechanics manufacturing and physics are now being solved by powerful optical methods This book presents a lucid up to date discussion of these optical methods Beginning from a firm base in modern optics the book proceeds through relevant theory of interference and diffraction and integrates this theory with descriptions of laboratory techniques and apparatus Among the techniques discussed are classical interferometry photoelasticity geometric moire spatial filtering moire interferometry holography holographic interferometry laser speckle interferometry and video based speckle methods By providing a firm base in the physical principles and at the same time allowing the reader to perform meaningful experiments related to the topic being studied the book offers a unique user oriented approach that will appeal to students researchers and practising engineers **Recent Advances in Mechanics**

E.E. Gdoutos, Anthony N. Kounadis, 2011-01-19 This book contains 24 papers presented at the symposium on Recent Advances in Mechanics dedicated to the late Professor Academician Pericles S Theocaris in commemoration of the tenth anniversary of his death The papers are written by world renowned and recognized experts in their fields and serve as a reference and guide for future research The topics covered in the book can be divided into three major themes Mathematical methods in applied mechanics nine papers experimental mechanics nine papers and fracture mechanics six papers Topics covered include Application of reciprocity relations to laser based ultrasonics boundary value problems of the theory of elasticity optimal design in contact mechanics scaling of strength and lifetime distributions of quasibrittle structures directional distortional hardening in plasticity vibration of systems instability phenomena in damped systems

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