



River Publishers

Advancement of Optical Methods in Experimental Mechanics, Volume 3

Proceedings of the 2013 Annual Conference on Experimental and Applied Mechanics

Editor: Helena Jin, The Society for Experimental Mechanics, Bethel, USA

Advancement of Optical Methods in Experimental Mechanics: Proceedings of the 2013 Annual Conference on Experimental and Applied Mechanics, the third volume of eight from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on a wide range of optical methods ranging from traditional photoelasticity and interferometry to more recent DIC and DVC techniques, and includes papers in the following general technical research areas:

- Optical metrology and displacement measurements at different scales
- Digital holography and experimental mechanics
- Optical measurement systems using polarized light
- Surface topology
- Digital image correlation
- Optical methods for MEMS and NEMS
- Three-dimensional imaging and volumetric correlation
- Imaging methods for thermomechanics applications
- 3D volumetric flow measurement
- Applied photoelasticity
- Optical residual stress measurement techniques
- Advances in imaging technologies

River Rapids

Conference Proceedings of the Society for Experimental Mechanics Series

Advancement of Optical Methods in Experimental Mechanics, Volume 3

Helena Jin
Cesar Sciammarella
Sanichiro Yoshida
Luciano Lamberti



Conference Proceedings of the Society for Experimental Mechanics Series



River Publishers Series in Conference Proceedings of the Society for Experimental Mechanics Series

e-ISBN: 9788743802518

Available From: September 2013

Price:

KEYWORDS:

Devices & Fabrication Measurement Challenges
Nanoindentation Optical Methods Residual Stress
Single Molecule/single Atom Mechanical Testing
Size Effects in Metals Tribology



www.riverpublishers.com
marketing@riverpublishers.com