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Thermomechanics & Infrared Imaging, Inverse Problem Methodologies, Mechanics of Additive & Advanced Manufactured Materials, and Advancements in Optical Methods & Digital Image Correlation, Volume 4

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Description:

Thermomechanics & Infrared Imaging, Inverse Problem Methodologies and Mechanics of Additive & Advanced Manufactured Materials, and Advancement of Optical Methods & Digital Image Correlation, Volume 4 of the Proceedings of the 2021 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the fourth volume of four 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 areas, including:

- Test Design and Inverse Method Algorithms
- Inverse Problems: Virtual Fields Method
- Material Characterizations Using Thermography
- Fatigue, Damage & Fracture Evaluation Using Infrared Thermography
- Mechanics of Additive & Advanced Manufactured Materials
- DIC Methods & Its Applications
- Photoelasticity and Interferometry Applications
- Micro-Optics and Microscopic Systems
- Multiscale and New Developments in Optical Methods

Keywords: Test Design and Inverse Method Algorithms Inverse Problems: Virtual Fields Method Material Characterizations Using Thermography Mechanics of Additive & Advanced Manufactured Materials DIC Methods & Its Applications Photoelasticity and Interferometry Applications Micro-Optics and Microscopic Systems

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