River Publishers

Challenges in Mechanics of Time-Dependent Materials, Volume 2

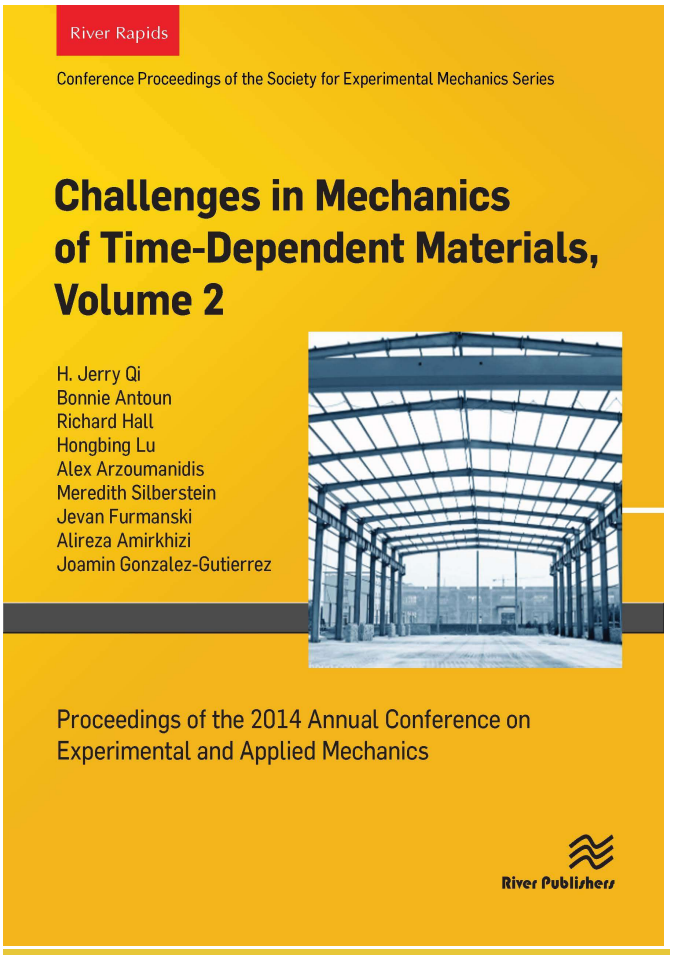
Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics

Editors:

H. Jerry Qi, The Society for Experimental Mechanics, Bethel, USA
Bonnie Antoun, The Society for Experimental Mechanics, Bethel, USA
Richard Hall, The Society for Experimental Mechanics, Bethel, USA
Hongbing Lu, The Society for Experimental Mechanics, Bethel, USA
Alex Arzoumanidis, The Society for Experimental Mechanics, Bethel, USA
Meredith Silberstein, The Society for Experimental Mechanics, Bethel, USA
Jevan Furmanski, The Society for Experimental Mechanics, Bethel, USA
Alireza Amirkhizi, The Society for Experimental Mechanics, Bethel, USA
Joamin Gonzalez-Gutierrez, The Society for Experimental Mechanics, Bethel, USA

Challenges in Mechanics of Time-Dependent Materials, Volume 2: Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics, the second 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 fundamental and applied aspects of Experimental Mechanics, including papers in the following general technical research areas:

- Metallic, Polymeric and Composite Materials
- Effects of Extreme Environments including Radiation Resistance, Damage, and Aging
- Challenges in Time-dependent Behavior Modeling of Low, Moderate and High Strain Rates
- Effects of Inhomogeneities on the Time-Dependent Behavior
- Time dependent granular materials
- Composite, Hybrid and Multifunctional Materials
- Challenges in Time-dependent Behavior Modeling Viscoelastoplasticity and Damage
- Effects of Interfaces and Interphases on the Time-Dependent Behavior
- Mechanics of materials from advanced manufacturing, such as additive manufacturing
- Property characterization from AM
- Process modeling and simulations of AM
- Material design using AM
- Time-dependent and Small-scale Effects in Micro/Nano-scale Testing



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

e-ISBN: 9788743802761
Available From: August 2014
Price:

KEYWORDS:
Conventional materials Elastomeric polymers Multifunctional materials Nanotubearrays Society for experimental mechanics Thermomechanical models Time-dependent materials Viscoelastic Viscoplastic

www.riverpublishers.com
marketing@riverpublishers.com