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Challenges in Mechanics of Time Dependent Materials, Fracture, Fatigue, Failure and Damage Evolution, Volume 2

Proceedings of the 2019 Annual Conference on Experimental and Applied Mechanics

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Description:

Challenges in Mechanics of Time-Dependent Materials, Volume 2 of the Proceedings of the 2019 SEM Annual Conference& Exposition on Experimental and Applied Mechanics, the second volume of six 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:

- Characterization Across Length Scales
- Extreme Conditions & Environmental Effects
- Soft Materials and Biomaterials
- Damage, Fatigue and Fracture
- Structure, Function and Performance
- Rate Effects in Elastomers
- Viscoelasticity & Viscoplasticity
- Research in Progress

In-situ Techniques and Microscale Effects on Mechanical Behavior Fracture and Fatigue in Brittle Materials Novel Experimental Methods Fatigue and Fracture in Extreme Environments Integration of Models and Experiments Failure in Elastomers and Gels Rate Effects in Elastomers Microscale and Microstructural Effects on Mechanical Behavior Mechanics of Energy Materials Additive Manufacturing: Fatigue and Fracture Mechanics of Composite Materials Interfacial and Mixed-Mode Fracture Vibration Effects and High Cycle Fatigue

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