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Challenges in Mechanics of Time-Dependent Materials & Mechanics of Biological Systems and Materials, Volume 2

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Description:

Challenges in Mechanics of Time-Dependent Materials & Mechanics of Biological Systems and Materials, Volume 2 of the Proceedings of the 2022 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
- Damage, Fatigue and Fracture
- Structure, Function and Performance
- Rate Effects in Elastomers
- Viscoelasticity & Viscoplasticity
- Research in Progress
- Cellular Biomechanics and Mechanobiology
- Biofilms and Microbe Mechanics
- Traumatic Brain Injury
- Cardiac and Vascular Biomechanics
- Orthopedic and Disease Biomechanics
- Time Dependence of Biomaterials
- Experimental Techniques in Biological and Biomimetic Systems

Keywords: Time dependent materials mechanics of biological materials biological materials Characterization Across Length Scales Damage, Fatigue and Fracture Materials Structure, Function and Performance Rate Effects in Elastomers Viscoelasticity & Viscoplasticity Cellular Biomechanics and Mechanobiology Biofilms and Microbe Mechanics

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