

Challenges in Mechanics of Time-Dependent Materials, Volume 2

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## Reviews

This pdf is so gripping and intriguing. I could comprehended almost everything using this composed e ebook. You are going to like just how the article writer create this ebook. (Miss Dakota Zulauf)

## CHALLENGES IN MECHANICS OF TIME-DEPENDENT MATERIALS, VOLUME 2



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Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics | 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 Materialso Effects of Extreme Environments including Radiation Resistance, Damage, and Agingo Challenges in Time-dependent Behavior Modeling of Low, Moderate and High Strain Rateso Effects of Inhomogeneities on the Time-Dependent Behavioro Time dependent granular materials Composite, Hybrid and Multifunctional Materialso Challenges in Time-dependent Behavior Modeling Viscoelastoplasticity and Damageo Effects of Interfaces and Interphases on the Time-Dependent Behavior Mechanics of materials from advanced manufacturing, such as additive manufacturingo Property characterization from AMo Process modeling and simulations of AMo Material design using AM Time-dependent and Small-scale Effects in Micro/Nano-scale Testing | Unimorph Shape Memory Polymer Actuators Incorporating Transverse Curvature in the Substrate.- Yield Criterion for Polymeric Matrix Under Static and Dynamic Loading.- Investigating Uncertainty in SHPB Modeling and Characterization of Soft Materials.- Diffusion of Chemically Reacting Fluids Through Nonlinear Elastic Solids and 1D Stabilized Solutions.- Effect of Temperature on Mechanical Property Degradation of Polymeric Materials.- Small Strain Plasticity Behavior of 304L Stainless Steel in Glass-to-Metal Seal Applications.-Observations of Rate-Dependent Fracture of Locally Weakened Interfaces in Adhesive Bonds.- Keynote: Time Dependent Response of Composite Materials to Mechanical and Electrical Fields (40-min).-Characterizing the Temperature Dependent Spring-back Behavior of Poly(methyl Methacrylate) (PMMA) for Hot Embossing.- Thermomechanical Fatigue Evaluation of Haynes® 230® for Solar Receiver Applications.- Viscoelastic Characterization of Fusion Processing in Bimodal Polyethylene Blends.- Viscoelastic Properties for PMMA Bar...

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