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Dynamic Behavior of Materials, Volume 1

Proceedings of the 2013 Annual Conference on Experimental and Applied Mechanics

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Description:

Dynamic Behavior of Materials, Volume 1: Proceedings of the 2013 Annual Conference on Experimental and Applied Mechanics, the first 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 on:

- General Dynamic Material Properties
- Novel Dynamic Testing Techniques
- Dynamic Fracture and Failure
- Novel Testing Techniques
- Dynamic Behavior of Geo-materials
- Dynamic Behavior of Biological and Biomimetic Materials
- Dynamic Behavior of Composites and Multifunctional Materials
- Dynamic Behavior of Low-Impedance materials
- Multi-scale Modeling of Dynamic Behavior of Materials
- Quantitative Visualization of Dynamic Behavior of Materials
- Shock/Blast Loading of Materials

Keywords: Devices & Fabrication Measurement Challenges Nanoindentation Optical Methods Residual Stress Single Molecule/single Atom Mechanical Testing Size Effects in Metals Tribology