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# Dynamic Behavior of Materials, Volume 1, 2026

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## Description:

Dynamic Behavior of Materials, Volume 1 of the Proceedings of the 2026 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the first volume of five 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:

- Experimental Methods and Diagnostics
- High Strain-Rate Conditions
- Quantitative Imaging and Visualization
- Dynamic Behavior of Materials: Geomaterials, Brittle Materials, Composites, and Additively
- Manufactured (AM) Materials
- Impact, Penetration, Shock, and Blast Phenomena
- Energetic and Reactive Materials
- Integrated Experimental and Computational Approaches

**Keywords:** Dynamic Testing, Basics Of, Kolsky Bar failure mode, expanding cylinder, dynamic failure frozen soil, moisture content, strain rate, SHPB, aerogel, strain localization, split-Hopkinson bar PBEs, MWCNTs, DIC, Thermal Expansion split-Hopkinson bar, PBX, fracture behavior Heat affected zone, strain rate, welded aluminum shear-bands, TWC, dynamic