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Dynamic Behavior of Materials, Vol. 1

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Description:

Dynamic Behavior of Materials represents one of five volumes of technical papers presented at the 2025 SEM Annual Conference & Exposition on Experimental and Applied Mechanics organized by the Society for Experimental Mechanics and held in Milwaukee, WI, June 2-5, 2025. The complete proceedings also include volumes on: Advancement of Optical Methods & Digital Image Correlation in Experimental Mechanics; Mechanics of Biological Systems and Materials and the Mechanics of Composite, Hybrid & Multifunctional Materials; Fracture, Fatigue, Failure, Damage Evolution and Thermomechanics & Infrared Imaging; and Mechanics of Additive & Advanced Manufacturing, Inverse Methods and Machine Learning.

Each collection presents early findings from experimental and computational investigations on an important area within Experimental Mechanics. Dynamic Behavior of Materials is one of these areas.

The Dynamic Behavior of Materials track was initiated in 2005 and reflects our efforts to bring together researchers interested in the dynamic behavior of materials and structures, and to provide a forum to facilitate technical interaction and exchange. Over the years, this track has been representing the ever-growing interests in dynamic behavior to the SEM community, working towards expanding synergy with other tracks and topics, and improving diversity and inclusivity, as evidenced by the increasing number and diversity of papers and attendance.

The contributed papers span numerous technical divisions within SEM, demonstrating its relevance not only in the dynamic behavior of materials community, but also in the mechanics of materials community as a whole. The track organizers thank the authors, presenters, organizers and session chairs for their participation, support, and contribution to this track. The

SEM support staff is also acknowledged for their devoted efforts in accommodating the large number of paper submissions this year, making the 2025 Dynamic Behavior of Materials Track a success.

Keywords: Heterogeneous, Freeze-thaw, High strain rate, FiberMetalLaminate, GLARE, SHPB, High strain rate

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