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Fracture, Fatigue, Failure and Thermomechanics & Infrared Imaging, Volume 4, 2026

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Description:

Fracture, Fatigue, Failure and Thermomechanics & Infrared Imaging, Volume 4 of the Proceedings of the 2026 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the fourth 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 a wide range of areas, exploring failure mechanisms across various material systems including metals, composites, and natural materials:

- Mixed-Mode Fracture in Wood
- Thermal Expansion Effects
- Shot Peening Residual Stress
- Matrix Cracking under Dynamic Loading

Keywords: Fracture, moisture fields, wood, viscoelasticity Wood, Mobility, Fracture, MMCG, LSA Shot Peening, FEA, Stress, Fatigue, Aluminum Alloy SS316L,SHTB, microstructural evolution,martensite Wood, MMGC, Mixed-mode fracture, DIC, Simulation Matrix cracking, X-Ray, Infrared Thermography Leidenfrost, pump, thermal propulsion

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