

River Publishers Series in Conference Proceedings of the Society for Experimental Mechanics Series

Mechanics of Additive and Advanced Manufacturing, Inverse Methods and Machine Learning, Volume 5, 2026

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ISBN: 9788743816232
e-ISBN: 9788743815983
Available From: October 2026

Description:

Mechanics of Additive and Advanced Manufacturing, Inverse Methods and Machine Learning, Volume 5 of the Proceedings of the 2026 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the fifth 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, including:

- Additive manufacturing
- Metal AM processes (binder jet, L-PBF)
- Solid-State Consolidation
- Laser Shock Peening
- Solid-State Feedstock Consolidation
- Underwater Printable Concrete
- Inverse FE Approaches for Material Characterization

Keywords: Solid-state consolidation, Cyclic shear, feedstock Binder jetting â˜™ IN625 â˜™ Layer thickness Biodegradable materials, sustainable construction Laser shock peening, residual stress, AM Ti-6Al-4V Dynamic, Cast Iron underwater, additive manufacturing, UHPC, rheology