1. Record Nr. UNINA9910838279403321 Autore Kramer Sharlotte L. B. **Titolo** Additive and Advanced Manufacturing, Inverse Problem Methodologies and Machine Learning and Data Science, Volume 4 [[electronic resource] 1: Proceedings of the 2023 Annual Conference & Exposition on Experimental and Applied Mechanics / / edited by Sharlotte L.B. Kramer, Emily Retzlaff, Piyush Thakre, Johan Hoefnagels, Marco Rossi, Attilio Lattanzi, François Hemez, Mostafa Mirshekari, Austin Downey Cham:,: Springer Nature Switzerland:,: Imprint: Springer,, 2024 Pubbl/distr/stampa **ISBN** 3-031-50474-7 Edizione [1st ed. 2024.] 1 online resource (101 pages) Descrizione fisica Conference Proceedings of the Society for Experimental Mechanics Collana Series, , 2191-5652 Altri autori (Persone) RetzlaffEmily **ThakrePiyush** HoefnagelsJohan RossiMarco LattanziAttilio HemezFrançois MirshekariMostafa DowneyAustin 670 Disciplina Soggetti Industrial engineering Production engineering Machine learning Artificial intelligence - Data processing Materials - Analysis Industrial and Production Engineering Machine Learning **Data Science** Materials Characterization Technique Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia

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Additive and Advanced Manufacturing, Inverse Problem Methodologies and Machine Learning and Data Science, Volume 4 of the Proceedings of the 2023 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 topics and includes papers in the following general technical research areas: AM Composites and Polymers Dynamic Behavior of Additively Manufactured Materials and Structures Joint Residual Stress and Additive Manufacturing ML for Material Model Identification Novel AM Structures Novel Processing and Testing of Additively Manufactured Materials Plasticity and Complex Material Behavior Virtual Fields Method.