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Nota di contenuto	Industry 4.0-Connected Drives using OPC UA -- Conceptual Framework to Assess the Maturity and Readiness towards Industry 4.0 -- Prioritizing drivers of Industry 4.0 enabling Additive Manufacturing: A Case Study -- IoT and Semantic based Manufacturing System in the era of Industry 4.0 -- Towards Socio-technical Network Analysis (STNA) in the connected world of Industry 4.0 and Digital Manufacturing -- Intelligent Analytics for Factory Energy Efficiency -- Smart Multi- Material Weight Tracking Resource Bin -- A Conceptual Model for Smart Manufacturing Systems -- Casting Yield Improvement using Modeling and Simulation Technique -- Comparison of Two Different Simulation Methods for the Finite Element Analysis of Electromagnetic Forming and Perforation (EMFP) of Tubes. .

Sommario/riassunto

This book presents selected papers from the 1st International Conference on Industry 4.0 and Advanced Manufacturing held at the Indian Institute of Science, Bangalore and includes deliberations from stakeholders in manufacturing and Industry 4.0 on the nature, needs, challenges, opportunities, problems, and solutions in these transformational areas. Special emphasis is placed on exploring avenues for creating a vision of, and enablers for, sustainable, affordable, and human-centric Industry 4.0. The book showcases cutting edge practice, research, and educational innovation in this crucial and rapidly evolving area. This book will be useful to researchers in academia and industry, and will also be useful to policymakers involved in creating ecosystems for implementation of Industry 4.0.
