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Nota di contenuto	Influence of Discrete Electromechanical Hardening on the Wear Resistance of Steels -- Application of Microphotogrammetric and Material Science Techniques in the Study of Materials on the Example of Alloy AlZnMgCu -- Functional Properties of PTFE-composites Produced by Mechanical Activation -- The Effect of the Hardfacing Processes Parameters on the Carbide Volume Fraction -- Data Integration

Sommario/riassunto

This book reports on topics at the interface between manufacturing, mechanical and chemical engineering. It gives special emphasis to CAD/CAE systems, information management systems, advanced numerical simulation methods and computational modeling techniques, and their use in product design, industrial process optimization and in the study of the properties of solids, structures, and fluids. Control theory, ICT for engineering education as well as ecological design, and food technologies are also among the topics discussed in the book. Based on the 2nd International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE-2019), held on June 11-14, 2019, in Lutsk, Ukraine, the book provides academics and professionals with a timely overview and extensive information on trends and technologies behind current and future developments of Industry 4.0, innovative design and renewable energy generation.

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