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Soggetti	Mechanics, Applied Solids Materials - Analysis Manufactures Solid Mechanics Characterization and Analytical Technique Machines, Tools, Processes
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Nota di contenuto	Dynamical viscoelastic properties of poly(ester-urethane) biomaterial for scaffold applications -- Study Of Al 2017 Alloy Prepared By Recycling Method Via Powder Metallurgy Route -- Initiation life prediction method for defective materials -- Effects of WAAM process parameters on metallurgical and mechanical properties of Ti- 6Al-4V deposits -- Structural characterization of Phosphate- based geopolymer -- Influence of tool-workpiece characteristics on cutting tool dynamic behaviour and its position during straight turning -- Comparison between two numerical methods SPH / FEM and CEL by numerical simulation of an impacting water jet -- Comparison of knife fabricated from tool steel by heat treatment and knife fabricated from

structural steel by hard surface welding -- Investigation on the effects of recycling and injection parameters on gloss properties of smooth polypropylene parts.

Sommario/riassunto

This book reports on cutting-edge findings concerning characterization of material behavior, material modeling and simulation, and applications in the field of manufacturing. Based on the second International Conference on Advanced Materials Mechanics & Manufacturing, A3M2018, organized by the Laboratory of Mechanics, Modeling and Manufacturing (LA2MP) of the National School of Engineers of Sfax, Tunisia, the book covers a variety of topics, such as experimental analysis of material plasticity and fatigue, numerical simulation of material behavior, and optimization of manufacturing processes, such as cutting and injection, among others. It offers a timely snapshot on current research and applications, offering a bridge to facilitate communication and collaboration between academic and industrial researchers. .
