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Descrizione fisica	1 online resource (XL, 670 p. 441 illus., 362 illus. in color.)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4356
Disciplina	670
Soggetti	Manufactures Chemistry, inorganic Manufacturing, Machines, Tools, Processes Tribology, Corrosion and Coatings Materials Engineering Optics, Lasers, Photonics, Optical Devices
Lingua di pubblicazione	Inglese
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Nota di contenuto	1. Modelling, analysis and simulation of manufacturing processes -- 2. Materials forming and machining -- 3. Welding and joining processes -- 4. Mechanical behavior and fracture -- 5. Tooling, testing and evaluation of machining -- 6. High-speed/precision machining -- 7. Laser processing -- 8. Casting -- 9. Non-traditional machining.
Sommario/riassunto	This book comprises selected proceedings of the International Conference on Engineering Materials, Metallurgy and Manufacturing (ICEMMM 2018). It discusses innovative manufacturing processes, such as rapid prototyping, nontraditional machining, advanced computer numerical control (CNC) machining, and advanced metal forming. The book particularly focuses on finite element simulation and optimization, which aid in reducing experimental costs and time. This book is a valuable resource for students, researchers, and professionals alike.