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Descrizione fisica	1 online resource (xxiv, 1103 pages) : illustrations (some color)
Collana	Lecture notes in mechanical engineering
Disciplina	670.1
Soggetti	Manufacturing processes - Computer simulation
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Manufacturing Processes 2. Supply Chain and Remanufacturing 3. Machine Tools 4. Materials 5. Additive Manufacturing 6. Production Systems 7. Planning, Scheduling and Control 8. Energy Efficiency 9. Industry 4.0 and Digitalization 10. Life Cycle and Decision Making 11. Product Design and Innovation 12. Learning and Knowledge 13. Assessment, Strategy and Business Models 14. Metrics 15. Sustainability at Regional Level 16. Student Projects.
Sommario/riassunto	This is an open access book. It gathers the proceedings of the 18th Global Conference on Sustainable Manufacturing, held on October 5-7, 2022, as a hybrid event, in/from Berlin, Germany. With a focus on manufacturing advances and practices driving the circular economy, the chapters selected for this book report on sustainable manufacturing technologies for the mobility, energy and construction sector, and for machines and equipments, covering applications of artificial intelligence and industry 4.0. Moreover, they discuss energy-efficient process, waste reuse, and CO2 neutral production, giving a special emphasis to developing sustainable manufacturing in emerging countries. This book offers extensive and timely information for both researchers and professionals in the field of manufacturing and business development.