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Descrizione fisica	1 online resource (VIII, 294 p. 169 illus., 96 illus. in color.)
Collana	Materials Forming, Machining and Tribology, , 2195-0911
Disciplina	670
Soggetti	Manufactures Sustainable development Ceramics Glass Composites (Materials) Composite materials Metals Manufacturing, Machines, Tools, Processes Sustainable Development Ceramics, Glass, Composites, Natural Materials Metallic Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Fabrication of Micro-cutting Tools for Mechanical Micro-machining -- Machining of Glass Materials: An Overview -- Thermal-Assisted Machining of Titanium Alloys -- Abrasive Water Jet Machining of Composite Materials -- Advanced Joining and Welding Techniques: An Overview -- Laser-Based Repair of Damaged Dies, Molds, and Gears -- Friction Stir Welding—An Overview -- Ultrasonic Spot Welding—Low Energy Manufacturing for Lightweight Fuel Efcient Transport Applications -- Perspectives on Green Manufacturing -- Experimental Investigation and Optimization on MQL-Assisted Turning of Inconel-718 Super Alloy -- Dry and Near-Dry Electric Discharge Machining Processes -- Laser Metal Deposition Process for Product

Remanufacturing.

Sommario/riassunto

This book provides details and collective information on working principle, process mechanism, salient features, and unique applications of various advanced manufacturing techniques and processes belong. The book is divided in three sessions covering modern machining methods, advanced repair and joining techniques and, finally, sustainable manufacturing. The latest trends and research aspects of those fields are highlighted.