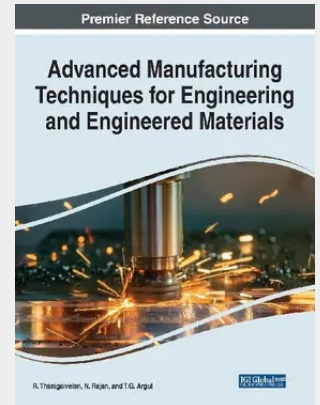


Advanced Manufacturing Techniques for Engineering and Engineered Materials

The book provides a unified and complete overview of the emerging trends, recent developments and associated technology, and scope for the commercialization of techniques specific to the manufacturing of materials. The book focuses on various advanced manufacturing methods involving 3D printing, casting, welding, Surface modification, CNC, and Non- traditional and hybrid machining methods. Additionally, the book reviews the various machining methods for difficult to cut materials and novel materials including metal matrix composites. This book also discusses the definite advantages and limitations of all techniques and emphasizes all the potentially feasible and emerging technological applications. Ideal for engineers, researchers, technologists, students at both the graduate level and undergraduate level, and entrepreneurs, the book describes the latest trends in manufacturing processes from 3D Printing to Non-Traditional and Hybrid Machining Methods.

As technology advances, it is imperative to stay current in the newest developments made within the engineering industry and within material sciences. Trends in manufacturing such as 3D printing, casting, welding, surface modification, computer numerical control (CNC), non-traditional, Industry 4.0 ergonomics, and hybrid machining methods must be closely examined to utilize these important resources for the betterment of society. Advanced Manufacturing Techniques for Engineering and Engineered Materials provides a unified and complete overview about the recent and emerging trends, developments, and associated technology with scope for the commercialization of techniques specific to manufacturing materials. This book also reviews the various machining methods for difficult-to-cut materials and novel materials including matrix composites. Covering topics such as agro-waste, conventional machining, and material performance, this book is an essential resource for researchers, engineers, technologists, students and professors of higher education, industry workers, entrepreneurs, researchers, and academicians.



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