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Nota di contenuto	A Review on Self-propelled Rotary Tools: A Comparative with Fixed-tool Machining, Modeling, Design, and Developments -- Study of Surface Roughness in CNC Turning of En8 Steel: An Experimental Approach -- Effect of Nanoparticles Concentration on the Lubricant Oiliness – A Review -- Design and Optimization of Cutting Flutes of Dental Implant to Improve Stress Pattern at the Bone Interface -- Experimental Analysis of Tool Wear in Ball End Milling Process of Ti6al4v Alloy -- Investigating Cutting Forces During Hard Turning of En 24 Steel: A Comparative Evaluation of MQL and Dry Cutting -- Multi-textured Cutting Tools to Enhance the Machinability of Inconel- 718 -- Advances in Micro-milling: A Critical Review -- A Comparative Analysis of Machining Performance During Turning Ss304 Stainless Steel under Dry and Com-pressed Air Cooling Conditions -- Investigation of Chip Thickness and Shear Angle During Turning AISI 304 Stainless Steel --

Investigation on Tool Life and Resultant Force During Turning of Hardened En24 Steel Using Multilayer Coated Carbide Tool -- Investigation into the Performance of TIG and MIG Welded Joints of Al6061 Plates -- Experimentation on Friction Welding of Aluminum Alloy with Dissimilar Metals to Determine Weld Strength of the Joint -- Microstructure Behaviour Evolutions in the Heat-affected Zone and Fusion Zones of the AISI 304 Stainless Steel Weldment in Double Pass Weld -- Welding of Ti-6al-4v Alloy: A Review -- Mechanical and Metallurgical Analysis of Rotary Friction Welded Low Carbon Steel and Stainless Steel -- Effect of Processing Route During Double Pass FSP along with Low Heat Input in the Second Pass on the Superplastic Behavior of Az31b Alloy -- Enhancing TIG Welding Performance on Monel 400: Key Parameters -- Experimental Investigation of Activated-TIG Process for Monel 400 Alloy -- Application of Ultrasonic Welding for Dissimilar Metals: A Review -- Investigation of Material Movement in Friction Stir Welding with Plasticine as a Analogue -- Influence of the Welding Speed on the Friction Stir Welding of Thick Al 6061-t6 Alloy Using a Bobbin Tool.

Sommario/riassunto

This book presents the select proceedings of 2nd International Conference on Futuristic Advancements in Materials, Manufacturing and Thermal Sciences (ICFAMMT 2024). It covers the latest research in manufacturing sciences and technology, including metal cutting, metal forming, casting, joining, micromachining, nonconventional machining, and additive manufacturing. The book also covers topics such as industry 4.0, digital manufacturing, and the use of artificial intelligence and machine learning in the manufacturing industry, cryogenic machining, dry and near-dry machining, and additive manufacturing, including metal-based additive manufacturing, polymer-based additive manufacturing, and hybrid additive manufacturing. The book is useful for researchers and professionals working in the field of manufacturing sciences.