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	Nota di contenuto	Impact Model for Grinding Process in the Framework of Sustainable Manufacturing -- Execution Analysis of Vapor Compression Refrigeration System Using R12, R134a, R290 and R600a as Working Medium -- Design, Optimization and Analysis of Baja suspension system using Full Factorial Approach -- Aerodynamic Analysis of a 3D Small Wind Turbine Blade Using NACA 63415 Aerofoil With MRF -- Trends on the Abrasive Flow and Electric Discharge Machining of Polymer Matrix Composites -- Influence of Process Variables on the Ultimate Tensile Strength of Friction Stir welded AA6061 Matrix Composite -- Mechanical Properties and Microstructural Characteristics of Friction Stir Welded Aluminium Matrix Composite -- Experimental Investigation on Cu2O Coated/Non Coated Gear to Compare Enhanced

Properties -- Influence of Honeycomb Core on Static and Vibration Responses of Sandwich Structures -- Influence of Point Mass over FGM Plate for Vibration Signature in Different Boundary Conditions using FEA.

Sommario/riassunto	This book comprises selected papers from the Fourth International Conference on Materials and Manufacturing Engineering (ICMME 2019). The contents focus on the latest developments in the synthesis and characterization of new materials, and highlights the challenges involved in the manufacturing and machinability of different materials. Advanced and cost-effective manufacturing processes and their applications are also discussed in the book. In addition, it covers topics like robotics, fluid dynamics, design and development, and different optimization techniques. The contents of this book will be beneficial to students, researchers, and industry professionals.