Table of Contents

Chapter 1 Enabling Smart Manufacturing with Artificial Intelligence and Big Data: A Survey and Perspective

Huu Du Nguyen, Kim Phuc Tran, Philippe Castagliola, and Fadel M. Megahed

Chapter 2 Green Applications with an Advanced Manufacturing Method: Cold Spray Deposition Technology

Koray Kılıçay, Salih Can Dayı, Esad Kaya, and Selim Gürgen

Chapter 3 Multi-Criteria Decision-Making Applications in Conventional and Unconventional Machining Techniques

Şenol Bayraktar and Erhan Şentürk

Chapter 4 Taguchi-Based GRA Method for Multi-Response Optimization of Spool Bore in EHSV Made Up of Stainless Steel 440C

Pranav R., Md. I. Equbal, Azhar Equbal, and Kishore K.

Chapter 5 Wearing Behaviour of Electrodes during EDM of AISI 1035 Steel

Azhar Equbal and Md. Asif Equbal

Chapter 6 Achieving Optimal Efficiency in Manufacturing through Reinforced PA 3D Printed Parts Generated by FDM Technology

Aissa Ouballouch, Rachid El Alaiji, Mohammed Sallaou, Aboubakr Bouayad, Hamza Essoussi, Said Ettaqi, and Larbi Lasri

Chapter 7 Characterization of Effect of Cellular Support Structures in Selective Laser Melting Using Stainless Steel 316L

M. Abattouy, M. Ouardouz, and H. Azzouzi

Chapter 8 Using Carbon Nanotubes for Advanced Manufacturing of Antibiofilm Materials M. Gomes, R. Teixeira-Santos, L. C. Gomes, and F. J. Mergulhão

Chapter 9 Development of a Novel Nanocomposite Coating for Tribological Applications Arti Yadav, Muthukumar M., and M. S. Bobji