

| | |
|-------------------------|--|
| 1. Record Nr. | UNINA9911007185103321 |
| Autore | Jayakumar V |
| Titolo | Engineering Systems, Equipment and Robotics |
| Pubbl/distr/stampa | Zurich : , : Trans Tech Publications, Limited, , 2024 ©2024 |
| ISBN | 3-0364-1491-6 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (226 pages) |
| Altri autori (Persone) | RazakKhairunisak Abdul |
| Disciplina | 670 |
| Soggetti | Manufacturing processes Mechatronics |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | <p>Intro -- Engineering Systems, Equipment and Robotics -- Preface --</p> <p>Table of Contents -- Chapter 1: Technologies of Electro Discharge Machining -- Investigation on Influence of Die Electric Medium in Electrical Discharge Machining of Monel 400 Alloy -- Experimental Analysis of Cryogenic-Treated Single Tubular Electrodes in Micro-EDM Using CRITIC-MOORA Based Integrated Approach -- Multi-Objective Parametric Optimization of Micro-Electro Discharge Machining of Hastelloy C276 Super Alloy Using Response Surface Methodology and Particle Swarm Optimization -- Chapter 2: Waste Treatment -- Preparation and Characterization of Calcium Hydroxide from Cockle Shell Waste via Sol-Gel Method: Effect of HCl Concentration -- Reprocessable and Recyclable Self-Healing Natural Rubber/Carbon Black Composite Based on Metal Thiolate Ionic Network -- Cellulose-Based Oil Palm Empty Fruit Bunch as an Alternative Filler for Latex Application: A Review -- A Review on Methods of Cenosphere Separation from Fly Ash -- Transforming Carbide Lime Waste into Marketable PCC: Effect of Mechanical Disturbance -- Characterisation of Water Treatment Sludge (WTS) at a Water Treatment Plant in Melaka -- Recycling Blast Furnace Dust as Raw Material in Iron-Making -- Evaluation of Mechanical Properties with the Use of EPS Polymer for the Preparation of Sustainable Composite Based on Concrete -- Chapter 3: Design of Structural Elements and Technological Equipment -- Design</p> |

and Development of a Portable Resistance Spot Welding Machine for Small-Scale Industries -- Review on Performance and Emissions Characteristics of Compression Ignition Engine Fueling Non-Edible Vegetable Oil -- Analytical Studies of Fluid Conveying Pipes on Viscoelastic Foundation Using Differential Transforms Method -- Effect of Long Used Machine Oil on the Tribological Behaviour of Cu-Based Gear Materials.

Chapter 4: Heat and Mass Transfer in Engineering Systems -- An Analytical Study of the Impact of an Inclined Magnetic Field on Couette Flow with Jeffrey Fluid under Local Thermal Non-Equilibrium (LTNE) and Viscous Dissipation -- Strategies on the Optimization of Thermoelectric Systems for Heat Transfer Applications: State of the Art Review -- Chapter 5: Mechatronics and Robotics -- A Survey of Drones in Agriculture Sector -- Multi-Objective Optimization of a Three Degree-of-Freedom Translational Parallel Kinematic Machine with Coplanar Rails -- A Robotic Arm Visual Grasp Detection Algorithm Combining 2D Images and 3D Point Clouds -- Keyword Index -- Author Index.

Sommario/riassunto

Special topic volume with invited peer-reviewed papers only.
