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Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Advances in Materials and Manufacturing -- Preparation and Creation of Interlocking Concrete Block Bricks by Using Tempered Glass Leftovers -- 1 Introduction -- 2 Materials and Methods -- 3 Results and Discussions -- 4 Conclusions -- References -- Optimum Blade Geometry C-9015A to Reduce Blade Erosion -- 1 Introduction -- 2 Energy Analysis Equations -- 3 Conclusion -- References -- The Study to Optimum Parameters for Surface Roughness (Ra) Using Ballnose Cutting Tools in SKT4 Steel Forging -- 1 Introduction -- 2 Experimental -- 2.1 Machine and Materials -- 2.2 Procedure -- 3 Results and Discussion -- 4 Conclusions -- References -- Numerical Investigation of Thermal Performance for Pulsating Flow in a Microchannel Heat Sink Filled with MXene Fluid -- 1 Introduction -- 2 Methodology -- 3 Results and Discussion -- 3.1 Velocity Analysis -- 3.2 Pressure Contour Analysis -- 3.3 Temperature Contour Analysis -- 3.4 Nusselt Number Analysis -- 3.5 Pressure at Inlet Analysis -- 3.6 Maximum Temperature Analysis -- 4 Conclusion -- References -- Optimization of a Sustainable Wheel for Enhanced Vehicle Maneuverability and Power Generation -- 1 Introduction -- 2 Methodology -- 2.1 Conceiving the Model -- 2.2 Selection of Materials -- 3 Free Body Diagram -- 4 Finite Element Analysis -- 5 Topology Optimization -- 6 Results and Discussion -- 6.1 Meshing -- 6.2 Stress Analysis -- 6.3 Modified Rim Structure -- 7 Conclusions -- References -- Comparative Study of Mechanical Properties for Steel S50C by Induction Heating Application -- 1 Introduction -- 1.1 The Heat Treatment is as Follows -- 2 Experimental Results -- 3 Conclusion -- References -- Semi-automatic Charcoal Mixer and Compression -- 1 Introduction -- 2 Experiment -- 2.1 Materials -- 2.2 Semi-automatic Charcoal Briquette Mixing and Compression Machine. 3 Experimental Method -- 3.1 Properties of Charcoal Powder -- 3.2 Moisture Content -- 3.3 Mixer Performance -- 3.4 Mixer Performance -- 3.5 Compression -- 3.6 Specific Energy Consumption Compression -- 3.7 Properties of Charcoal Briquettes -- 4 Results and Discussion -- 4.1 Density -- 4.2 Moisture Content -- 4.3 Mixer Performance -- 4.4 Specific Energy Consumption Mixing -- 4.5 Compression -- 4.6 Specific Energy Consumption Compression -- 4.7 Properties of Charcoal Briquettes -- 5 Conclusions -- References -- The Effect of Pore Size on Thermal Stress Distribution in Metal Porous Structures -- 1 Introduction -- 2 Finite Element Analysis -- 2.1 FEM Model -- 2.2 Materials Properties -- 2.3 Boundary Conditions -- 3 Result and Discussion -- 4 Conclusions -- References -- A Study on Surface Modification of Lm6Al2O3 Metal Matrix Composites -- 1 Introduction -- 2 Materials -- 2.1 Reasons for Choosing LM6 -- 2.2 Reasons for Choosing Al2O3 -- 3 Experimental Procedure -- 3.1 Ball Milling -- 3.2 Compaction -- 3.3 Sintering -- 3.4 Nitriding -- 3.5 After Nitriding of the Sintered Material, the Samples were Tested Using Various Tests. Tensile Test -- 3.6 Compressive Test -- 3.7 Shear Test -- 3.8 Wear Test -- 4 Results and Discussions -- 4.1 Density Evaluation -- 4.2 Hardness Evaluation -- 4.3 Effect of Surface Modification Time -- 4.4 Compressive Strength Evaluation -- 4.5 Tensile Strength Evaluation -- 4.6 Shear Strength Evaluation -- 4.7 Wear Analysis -- 4.8 Powder

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Pre-conceptual Study of Advanced Air Mobility in Indonesia Using Model-Based Systems Engineering Development Framework.

Sommario/riassunto

The 11th International Conference on Creative Technology (ICCT2023): To Added Value Innovations in Engineering, Materials and Manufacturing was held in Rajamangala University of Technology Krungthep, 2 Nanglinchi Road, Thungmahamek, Sathorn, Bangkok, Thailand, between July 20 and 22, 2023. The conference was organized by three universities from three countries, namely Rajamangala University of Technology Krungthep (RMUTK, Thailand), Vellore Institute of Technology (VIT, India), and Liverpool John Moores University (LJMU, England). The conference aimed to give an opportunity for students, government organizations, private sectors, and universities to exchange experiences in advances in materials and manufacturing, simulation, automation, optimization of production processes, production management, maintenance, simulation, Industry 4.0, AI, and robotics. This book presents a collection of 58 peer-reviewed papers. The organizers received 61 contributions from 12 countries around the world. After a thorough peer-review process, the committee accepted 33 papers for conference proceedings prepared by 142 authors from 11 countries (acceptance rate of around 54%).