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Nota di contenuto	Effect of Suspension System Stiffness on Dynamic Load Three Axle Vehicle -- Trajectory Inference Optimization Based on Improved DR Algorithm -- Research on AGV Chassis Structural Renovation based on Uphill and Downhill Scenarios -- Finding Recommendations for Selecting Numerical Model Settings for Efficient Simulation of the Working Process of an Axial Turbine Blade with Convective Cooling -- A Novel Design of Automatic Longan Seed Removing Machine -- A Semi-analytical Approach for Dynamic Characteristics of Beams with the Effect of Static Load -- Milling Tool Wear Prediction Based on 1DCNN-LSTM -- The Influence of Road Quality on Oscillating of Multi-Purpose Forest Fire Fighting Vehicle -- Filaments for 3D Printers from Surgical Masks, Cornstarch and Plastic Bottles Generated by COVID-19 -- AFM Analysis of 3D Printing PEI for Automotive Applications Life Cycle Assessment of Wire Arc Additive Manufacturing Process --

Development of Cost-effective Sustainable Hybrid Composites Based on Recycled PP and Chopped Carbon Fibers -- Mechanism of Droplet Coalescence in Cylindrical Hydrocyclone -- Influence of Geometric Imperfections on Global Buckling Strengths of Cold-rolled Aluminium Alloy Channel Columns.

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Sommario/riassunto

This book consists of selected papers presented at the 8th International Conference on Mechanical, Automotive and Materials Engineering (CMAME 2022), held in Hanoi, Vietnam, on 16–18 December 2022. Readers find this book a vehicle for the dissemination of research results on latest advances made in this area. It is expected that the publication of the research papers with the advanced topics listed in this book will further promote high standard academic research in the field and make a significant contribution to the development of human society. Topics that will be covered in this book include but not limited to: materials science and engineering; engine system design and power machinery; mechanical design-manufacture and automation; design and analysis of robot systems; automobile design and manufacturing engineering; thermal and fluid mechanics analysis; aircraft structural design and system control; control theory and engineering applications; electronic information technology. This book is intended for researchers, engineers and advanced postgraduate students in the fields of automotive, production, industrial engineering and design.

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