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Technology/Engineering/Automotive
Engineering for advancing ground
vehicle mobility A standard text and
reference for both the educational and
professional communities, Theory of
Ground Vehicles gives aspiring and
practicing engineers a fundamental
understanding of the critical factors

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affecting the performance, handling, and ride essential to the development and design of ground vehicles. In view of the growing concerns over environmental impact, energy efficiency, and safety, this new Fourth Edition has been revised and expanded to address these issues and other developments in the field. Retaining the contents and format of previous editions, the Fourth Edition introduces new material to reflect recent advances

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in ground transportation technology, including:

- * Computer-aided methods for design and performance evaluation of off-road vehicles and their practical applications
- * Emissions and fuel economy
- * Hybrid electric drives and fuel cells and their operating principles
- * Selection of vehicle configurations for off-road operations
- * Road vehicle stability control
- * ISO 2631-1:1997 and its applications to evaluating vehicle ride characteristics

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As in previous editions, this book focuses on applying engineering principles to the analysis of vehicle behavior. A large number of practical examples and problems are included throughout to help readers bridge the gap between theory and practice. With its broad coverage and pedagogical aids, *Theory of Ground Vehicles, Fourth Edition* remains the text of choice for students, engineers, and researchers wishing to master and apply basic

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theory to solve real-world, road and off-road vehicle mobility problems. Handbook of Railway Vehicle Dynamics, Second Edition, provides expanded, fully updated coverage of railway vehicle dynamics. With chapters by international experts, this work surveys the main areas of rolling stock and locomotive dynamics. Through mathematical analysis and numerous practical examples, it builds a deep understanding of the wheel-rail

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interface, suspension and suspension component design, simulation and testing of electrical and mechanical systems, and interaction with the surrounding infrastructure, and noise and vibration. Topics added in the Second Edition include magnetic levitation, rail vehicle aerodynamics, and advances in traction and braking for full trains and individual vehicles.

Issues in Mechanical Engineering / 2011

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Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Mechanical Engineering. The editors have built Issues in Mechanical Engineering: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Mechanical Engineering in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable,

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authoritative, informed, and relevant. The content of Issues in Mechanical Engineering: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with

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Emerging Technologies for Electric and
Hybrid Vehicles

Hearings, Reports, Public Laws

Springer Handbook of Mechanical
Engineering

Automotive Engineering

Select Proceedings of HEAT 2021

Proceedings of the International

Conference on Advanced Mechanical

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Engineering, Automation, and Sustainable Development 2021 (AMAS2021) Vols. 30-54 (1932-46) issued in 2 separately paged sections: General editorial section and a Transactions section. Beginning in 1947, the Transactions section is continued as SAE quarterly transactions.

This book Technological Advancement in Mechanical & Automotive Engineering gathers selected papers submitted to the 6th International Conference on Mechanical Engineering Research in fields related to automotive engineering, thermal and fluid engineering, and energy. This proceeding consists of papers in

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aforementioned related fields presented by researchers and scientists from universities, research institutes and industry showcasing their latest findings and discussions with an emphasis on innovations and developments in embracing the new norm resulting from the COVID pandemic.

This book presents the select proceedings of International Conference on Hybrid and Electric Automotive Technologies 2021 (HEAT 2021). It cover recent innovations in electric and hybrid-electric vehicles and autonomous vehicles. Various topics covered in this volume are batteries, battery cooling methodologies, use of nano-coolants, electrified

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powertrain systems and components, hybridisation infrastructure, energy storage, and many other topics of importance to the industry. The book will be useful for researchers and professionals working in the areas of automobile and vehicle engineering.

The Journal of the American Society of Mechanical Engineers

Engineering Index

Proceeding of RCTEMME2021, Hanoi, Vietnam

Proceedings of the 2016 International Conference on Automotive Engineering, Mechanical and Electrical Engineering (AEMEE 2016), Hong Kong, China, December 9-11, 2016

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Select Proceedings of FiMPART 2015

This book is a printed edition of the Special Issue "Emerging Technologies for Electric and Hybrid Vehicles" that was published in energies

The 2016 International Conference on Automotive Engineering, Mechanical and Electrical Engineering (AEMEE 2016) was held December 9-11, 2016 in Hong Kong, China. AEMEE 2016 was a platform for presenting excellent results and new challenges facing the fields of automotive, mechanical and electrical engineering. Automotive, Mechanical and Electrical Engineering brings together a wide range of contributions from industry and governmental experts and academics, experienced in engineering, design

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and research. Papers have been categorized under the following headings: Automotive Engineering and Rail Transit Engineering. Mechanical, Manufacturing, Process Engineering. Network, Communications and Applied Information Technologies. Technologies in Energy and Power, Cell, Engines, Generators, Electric Vehicles. System Test and Diagnosis, Monitoring and Identification, Video and Image Processing. Applied and Computational Mathematics, Methods, Algorithms and Optimization. Technologies in Electrical and Electronic, Control and Automation. Industrial Production, Manufacturing, Management and Logistics. Automotive manufacturers are required to decrease CO₂ emissions and increase fuel economy while assuring driver comfort and safety. In recent years, there has been rapid

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development in the application of lightweight and sustainable materials in the automotive industry to help meet these criteria. This book provides critical reviews and the latest research results of various lightweight and sustainable materials in automotive applications. It discusses current applications and future trends of lightweight materials in the automotive area. While there are a few books published mainly focusing on automotive applications of metallic lightweight materials, to date there is no available book focusing on a broad spectrum of lightweight materials, including metal, plastic, composites, bio-fiber, bio-polymer, carbon fiber, glass fiber, nanomaterials, rubber materials, and foaming materials, as this work does. The book also includes case studies of commercial lightweight automotive parts from

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sustainable lightweight materials, providing an invaluable resource to those involved in this in-demand research and commercialization area.

Technology Innovation in Mechanical Engineering

Issues in Mechanical Engineering: 2011 Edition

Mechanical, Thermal, and Environmental Testing and

Performance of Ceramic Composites and Components

Lightweight and Sustainable Materials for Automotive

Applications

The Journal of the Society of Automotive Engineers

European Journal of Mechanical Engineering

This resource covers all areas of interest for the practicing engineer as well as for the student at

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various levels and educational institutions. It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables.

Tracing efforts to control unwanted sound--the noise of industry, city traffic, gramophones and radios, and aircraft--from the late nineteenth to the late twentieth century.

Production, new materials development, and mechanics are the central subjects of modern

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industry and advanced science. With a very broad reach across several different disciplines, selecting the most forward-thinking research to review can be a hefty task, especially for study in niche applications that receive little coverage. For those subjects, collecting the research available is of utmost importance. The Handbook of Research on Advancements in Manufacturing, Materials, and Mechanical Engineering is an essential reference source that examines emerging obstacles in these fields of engineering and the methods and tools used to find solutions. Featuring coverage of a broad range of topics including fabricating procedures,

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automated control, and material selection, this book is ideally designed for academics; tribology and materials researchers; mechanical, physics, and materials engineers; professionals in related industries; scientists; and students.

Mechanical Engineering Technologies and Applications

Recent Advances in Hybrid and Electric Automotive Technologies

Frontiers in Materials Processing, Applications, Research and Technology

Recent Advances in Mechanical Infrastructure

The AUN/SEED-Net Joint Regional Conference in

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Transportation, Energy, and Mechanical
Manufacturing Engineering
Mechanical Sound

These proceedings contain lectures presented at the NATO Advanced Study Institute on Concurrent Engineering Tools and Technologies for Mechanical System Design held in Iowa City, Iowa, 25 May -5 June, 1992. Lectures were presented by leaders from Europe and North America in disciplines contributing to the emerging international focus on Concurrent Engineering of mechanical systems. Participants in the Institute were specialists from

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throughout NATO in disciplines constituting Concurrent Engineering, many of whom presented contributed papers during the Institute and all of whom participated actively in discussions on technical aspects of the subject. The proceedings are organized into the following five parts: Part 1 Basic Concepts and Methods Part 2 Application Sectors Part 3 Manufacturing Part 4 Design Sensitivity Analysis and Optimization Part 5 Virtual Prototyping and Human Factors Each of the parts is comprised of papers that present state-of-the-art concepts and methods in fields contributing to

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Concurrent Engineering of mechanical systems. The lead-off papers in each part are based on invited lectures, followed by papers based on contributed presentations made by participants in the Institute. This book contains high-quality papers presented in the conference Recent Advances in Mechanical Infrastructure (ICRAM 2020) held at IITRAM, Ahmedabad, India, from 21-23 August 2020. The topics covered in this book are recent advances in thermal infrastructure, manufacturing infrastructure and infrastructure planning and design.

Green Composites for Automotive Applications

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presents cutting-edge, comprehensive reviews on the industrial applications of green composites. The book provides an elaborative assessment of both academic and industrial research on eco-design, durability issues, environmental performance, and future trends. Particular emphasis is placed on the processing and characterization of green composites, specific types of materials, such as thermoset and thermoplastic, nanocomposites, sandwich, and polymer biofoams. Additional sections cover lifecycle and risk analysis. As such, this book is an essential reference resource for R&D

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specialists working in materials science, automotive, chemical, and environmental engineering, as well as R&D managers in industry. Contains contributions from leading experts in the field Covers experimental, analytical and numerical analysis Deals with most important automotive aspects Provides a special section dedicated to lifecycle assessment

Index of Conference Proceedings

Annual cumulation

Green Composites for Automotive Applications

Condensed Catalogues of Mechanical Equipment

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Mechanical Engineering

Concurrent Engineering: Tools and Technologies for Mechanical System Design

Here's the book to keep handy when you have to overcome obstacles in design, simulation, fabrication and application of MEMS sensors.

This practical guide to design tools and packaging helps you create the sensors you need for the full range of mechanical microsensor applications. Critical physical sensing techniques covered include piezoresistive, piezoelectric, capacitive, optical, resonant, actuation, thermal, and

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magnetic, as well as smart sensing.

This book (The AUN/SEED-Net Joint Regional Conference in Transportation, Energy, and Mechanical Manufacturing Engineering) gathers selected papers submitted to the 14th Regional Conference in Energy Engineering and the 13th Regional Conference in Mechanical Manufacturing Engineering in the fields related to intelligent equipment, automotive engineering, mechanical systems and sustainable manufacturing, renewable energy, heat and mass transfer. Under the theme of "Integration and Innovation for Sustainable Development," This book consists of papers in

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the aforementioned fields presented by researchers and scientists from universities, research institutes, and industry showcasing their latest findings and discussions with an emphasis on innovations and developments in embracing the new norm, resulting from the COVID-19 pandemic.

Mechanical HandlingAutomotive, Mechanical and Electrical EngineeringProceedings of the 2016 International Conference on Automotive Engineering, Mechanical and Electrical Engineering (AEMEE 2016), Hong Kong, China, December 9-11, 2016CRC Press
Journal of the Society of Automotive

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Engineers

Accredited Postsecondary Institutions and
Programs

Proceedings of ICRAM 2020

Proceeding of International Conference in
Mechanical Engineering Research 2021

Theory of Ground Vehicles

Technological Advancement in Mechanical and
Automotive Engineering

This volume comprises the select proceedings of FiMPART 2015. The volume covers advances in major areas of materials research under one umbrella. This volume covers all aspects of materials research, processing,

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fabrication, structure/property evaluation, applications of ferrous, non-ferrous, ceramic, polymeric materials and composites including biomaterials, materials for energy, fuel cells/hydrogen storage technologies, batteries, super-capacitors, nano-materials for energy and structural applications, aerospace structural metallic materials, bulk metallic glasses and other advanced materials. The book will be useful to researchers, students, and professional working in areas related to materials innovation and applications. Understanding vehicle electrical and

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electronic systems is core to the work of every motor vehicle mechanic and technician. This classic text ensures that students and practicing engineers alike keep abreast of advancing technology within the framework of This book comprises select papers presented at the conference on Technology Innovation in Mechanical Engineering (TIME-2021). The book discusses the latest innovation and advanced research in the diverse field of Mechanical Engineering such as materials, manufacturing processes, evaluation of materials properties for the application in automotive, aerospace, marine, locomotive and energy sectors. The

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topics covered include advanced metal forming, Energy Efficient systems, Material Characterization, Advanced metal forming, bending, welding & casting techniques, Composite and Polymer Manufacturing, Intermetallics, Future generation materials, Laser Based Manufacturing, High-Energy Beam Processing, Nano materials, Smart Material, Super Alloys, Powder Metallurgy and Ceramic Forming, Aerodynamics, Biological Heat & Mass Transfer, Combustion & Propulsion, Cryogenics, Fire Dynamics, Refrigeration & Air Conditioning, Sensors and Transducers, Turbulent Flows, Reactive Flows, Numerical

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Heat Transfer, Phase Change Materials, Micro- and Nano-scale Transport, Multi-phase Flows, Nuclear & Space Applications, Flexible Manufacturing Technology & System, Non-Traditional Machining processes, Structural Strength and Robustness, Vibration, Noise Analysis and Control, Tribology. In addition, it discusses industrial applications and cover theoretical and analytical methods, numerical simulations and experimental techniques in the area of Mechanical Engineering. The book will be helpful for academics, including graduate students and researchers, as well as professionals

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interested in interdisciplinary topics in the areas of materials, manufacturing, and energy sectors.

Handbook of Railway Vehicle Dynamics, Second Edition

The Multibody Systems Approach to Vehicle Dynamics

*Kokuritsu Kokkai Toshokan shozō kagaku
gijutsu kankei Ōbun kaigiroku mokuroku
Occupational Outlook Handbook*

MEMS Mechanical Sensors

Select Proceedings of TIME 2021

This book focuses on cases and studies

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of interest to mechanical engineers and industrial technicians. The considered applications in this volume are widely used in several industrial fields particularly in the automotive and aviation industries. Readers will understand the theory and techniques which are used in each application covered in each chapter. The book contents include the following topics:
Numerical analysis of hydrokinetic turbines
Computational fluid dynamics

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of a CuO based nanofluid in mini-channel cross-sections
Orthodontic biomechanics of a NiTi arch wires
Reynold's number effects on fluid flow through Savonius rotors
Effect of operating parameters on Zn-Mn alloys deposited from additive-free chloride bath
Optical properties and stability of a blue-emitting phosphor (Sr₂P₂O₇:Eu²⁺)
Under UV and VUV excitation
Numerical study of the influence of nanofluid type on thermal

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improvement in a three dimensional mini channel Electrochemical studies and characterization of Zn-Mn coatings deposited in the presence of novel organic additives Prediction of fire and smoke propagation under a range of external conditions Structural design of a 10 kW H-Darrieus wind turbine The presented case studies and development approaches aim to provide the readers, such as graduate students, PhD candidates and professionals with basic

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and applied information broadly related to mechanical engineering and technology.

Filling the gaps between subjective vehicle assessment, classical vehicle dynamics and computer-based multibody approaches, *The Multibody Systems Approach to Vehicle Dynamics* offers unique coverage of both the virtual and practical aspects of vehicle dynamics from concept design to system analysis and handling development. The book

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provides valuable foundation knowledge of vehicle dynamics as well as drawing on laboratory studies, test-track work, and finished vehicle applications to get theory with practical examples and observations. Combined with insights into the capabilities and limitations of multibody simulation, this comprehensive mix provides the background understanding, practical reality and simulation know-how needed to make and interpret useful models.

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New to this edition you will find coverage of the latest tire models, changes to the modeling of light commercial vehicles, developments in active safety systems, torque vectoring, and examples in AView, as well as updates to theory, simulation, and modeling techniques throughout. Unique gelling of foundational theory, research findings, practical insights, and multibody systems modeling know-how, reflecting the mixed academic and

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industrial experience of this expert author team Coverage of the latest models, safety developments, simulation methods, and features bring the new edition up to date with advances in this critical and evolving field

A unified view of the use of computer vision technology for different types of vehicles Computer Vision in Vehicle Technology focuses on computer vision as on-board technology, bringing together fields of research where

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computer vision is progressively penetrating: the automotive sector, unmanned aerial and underwater vehicles. It also serves as a reference for researchers of current developments and challenges in areas of the application of computer vision, involving vehicles such as advanced driver assistance (pedestrian detection, lane departure warning, traffic sign recognition), autonomous driving and robot navigation (with

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visual simultaneous localization and mapping) or unmanned aerial vehicles (obstacle avoidance, landscape classification and mapping, fire risk assessment). The overall role of computer vision for the navigation of different vehicles, as well as technology to address on-board applications, is analysed. Key features: Presents the latest advances in the field of computer vision and vehicle technologies in a highly

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informative and understandable way, including the basic mathematics for each problem. Provides a comprehensive summary of the state of the art computer vision techniques in vehicles from the navigation and the addressable applications points of view. Offers a detailed description of the open challenges and business opportunities for the immediate future in the field of vision based vehicle technologies. This is essential reading for computer

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vision researchers, as well as engineers working in vehicle technologies, and students of computer vision.

Engineering Index Annual

Technology, Culture, and Public

Problems of Noise in the Twentieth

Century

Land, Sea, and Air

Automobile Electrical and Electronic

Systems

Automotive, Mechanical and Electrical

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Engineering

The Engineering Index Annual for ...

This book presents selected, peer-reviewed proceedings of the International Conference on Advanced Mechanical Engineering, Automation and Sustainable Development 2021 (AMAS2021), held in the city of Ha Long, Vietnam, from November 4 to 7, 2021. AMAS2021 is a special meeting of the International Conference on Material, Machines and Methods for Sustainable Development (MMMS), with a strong focus on automation and fostering an overall approach to assist policy makers, industries, and researchers at various levels to position local technological development toward sustainable development. The

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contributions published in this book stem from a wide spectrum of research, ranging from micro- and nanomaterial design and processing, to special applications in mechanical technology, environmental protection, green development, and climate change mitigation. A large group of contributions selected for these proceedings also focus on modeling and manufacturing of ecomaterials.

Mechanical Handling

The Engineering Index

Handbook of Research on Advancements in Manufacturing,
Materials, and Mechanical Engineering

Computer Vision in Vehicle Technology