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Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles 2015 Passenger Car and 2014 Concept Car Yearbook 2014 Passenger Car Yearbook Advanced Vehicle Control Ford Mustang Reducing Fuel Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two Handbook of Research on Innovations in Technology and Marketing for the Connected Consumer Wireless Power Transfer for Electric Vehicles: Foundations and Design Approach Proceedings of the European Automotive Congress EAEC-ESFA 2015 Federal Regulatory Directory Mustang vs. Corvette Advances in Dynamics of Vehicles on Roads and Tracks II Lemon-Aid New and Used Cars and Trucks 1990 – 2016 Automotive, Mechanical and Electrical Engineering 2014 International Conference on Mechanical Design, Manufacture and Automation Engineering (MDMAE2014) Hydrostatic Transmissions and Actuators Power Transmissions Fundamentals of Medium/ Heavy Duty Commercial Vehicle Systems Proceedings of I4SDG Workshop 2021 Competitiveness, Organizational Management, and Governance in Family Firms Lemon-Aid New and Used Cars and Trucks 2007 – 2017 Transmissions Noise and Vibration Control in Automotive Bodies Advanced Hybrid Powertrains for Commercial Vehicles Wireless Power Transfer for Electric Vehicles and Mobile Devices Legacy, Pathogenic and Emerging Contaminants in the Environment Federal Regulatory Guide Planning of Hybrid Renewable Energy Systems, Electric Vehicles and Microgrid Advances in Mechanism and Machine Science Emerging Threats of Synthetic Biology and Biotechnology Communication Technologies for Vehicles Energy Use Efficiency Official Gazette of the United States Patent and Trademark Office Connected Vehicles in the Internet of Things Simulation of the Noise Transmission through Automotive Door Seals Electric Vehicles for Smart Cities Quick Guide to IBM® SPSS® CTI SYMPOSIUM 2018 Heavy-Duty Electric Vehicles Electric Vehicle Integration in a Smart Microgrid Environment

"Thoroughly updated and expanded, 'Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems, Second Edition' offers comprehensive coverage of basic concepts building up to advanced instruction on the latest technology, including distributed electronic control systems, energy-saving technologies, and automated driver-assistance systems. Now organized by outcome-based objectives to improve instructional clarity and adaptability and presented in a more readable format, all content seamlessly aligns with the latest ASE Medium-Heavy Truck Program requirements for MTST." --Back cover. Each year car manufacturers release new production models that are unique and innovative. These cars begin as concepts then go through the process of prototyping. The process of creating a new model can take years, involving extensive testing and refining of aerodynamics, safety, engine components, and vehicle styling. The production model is the result of this lengthy process, and its new technologies reflect the latest engineering standards as well as market trends. The 2014 Passenger Car Yearbook details the key engineering developments in the passenger vehicle industry of the year. Each new car model is profiled in its own chapter with one or more articles that were previously published and written by the award-winning editors of Automotive Engineering International. The novel engineering aspects of each new model are explored in depth. Interviews with key developers and engineers are included for some of the models, providing inside details about how initial ideas evolved in the cars that consumers drive. Published for enthusiasts who are interested in new car models and their technologies, as well as practicing automotive engineers who are interested in new engineering trends such as hybrid systems, powertrain designs, automotive design, lightweighting, and materials, and new engineers who want an overview of current trends, the 2014 Passenger Car Yearbook also:

- Provides a single source for information on the key engineering trends of one year.
- Allows the reader to skip to chapters that cover specific car models that interest them, or read about all models from beginning to end.
- Makes for dynamic reading, with its large number of big, full-color images and easy-reading magazine format.

This book constitutes the proceedings of the 6th International Workshop on Communication Technologies for Vehicles, Nets4Cars/Nets4Trains/Nets4Aircraft 2014, held in Offenburg, Germany in May 2014. The 10 papers presented in this volume were carefully reviewed and selected from 15 submissions. The book also contains 4 invited papers. The contributions are organized in topical sections named: automotive issues, car-to-car, aviation

issues, in-car, and infrastructures. The volume includes selected and reviewed papers from the European Automotive Congress held in Bucharest, Romania, in November 2015. Authors are experts from research, industry and universities coming from 14 countries worldwide. The papers are covering the latest developments in fuel economy and environment, automotive safety and comfort, automotive reliability and maintenance, new materials and technologies, traffic and road transport systems, advanced engineering methods and tools, as well as advanced powertrains and hybrid and electric drives. Synthetic biology is a field of biotechnology that is rapidly growing in various applications, such as in medicine, environmental sustainability, and energy production. However these technologies also have unforeseen risks and applications to humans and the environment. This open access book presents discussions on risks and mitigation strategies for these technologies including biosecurity, or the potential of synthetic biology technologies and processes to be deliberately misused for nefarious purposes. The book presents strategies to prevent, mitigate, and recover from 'dual-use concern' biosecurity challenges that may be raised by individuals, rogue states, or non-state actors. Several key topics are explored including opportunities to develop more coherent and scalable approaches to govern biosecurity from a laboratory perspective up to the international scale and strategies to prevent potential health and environmental hazards posed by deliberate misuse of synthetic biology without stifling innovation. The book brings together the expertise of top scholars in synthetic biology and biotechnology risk assessment, management, and communication to discuss potential biosecurity governing strategies and offer perspectives for collaboration in oversight and future regulatory guidance. Powertrains for commercial vehicles have evolved since the late nineteenth-century invention of the ICE. In the revised second edition of *Advanced Hybrid Powertrains for Commercial Vehicles*, the authors explore commercial powertrains through history from the ICE through the introduction of the hybrid powertrain in commercial vehicles. Readers are given an understanding of the ICE as well as the classification of commercial vehicle hybrid powertrains, the variety of energy storage systems, fuel-cell hybrid powertrain systems, and commercial vehicle electrification. The authors review the legislation of vehicle emissions and the regulation necessary to promote the production of fuel-efficient vehicles. The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. *Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles* estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards. This volume contains the papers of the 1st Workshop IFToMM for Sustainable Development Goals (I4SDG), held online on November 25-26, 2021. The main topics of the workshop include the aspects of theory, design and practice of mechanism and machine science which are instrumental in reaching a sustainable development, such as: biomechanical engineering, sustainable energy systems, robotics and mechatronics, green tribology, computational kinematics, dynamics of machinery, industrial applications of mechanism design, gearing and transmissions, multibody dynamics rotor dynamics, vibrations, humanitarian engineering, and socio-technical systems for sustainable and inclusive development. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists, demonstrating that medical and service robotics

will drive the technological and societal change in the coming decades. *Hydrostatic Transmissions and Actuators* takes a pedagogical approach and begins with an overview of the subject, providing basic definitions and introducing fundamental concepts. Hydrostatic transmissions and hydrostatic actuators are then examined in more detail with coverage of pumps and motors, hydrostatic solutions to single-rod actuators, energy management and efficiency and dynamic response. Consideration is also given to current and emerging applications of hydrostatic transmissions and actuators in automobiles, mobile equipment, wind turbines, wave energy harvesting and airplanes. End of chapter exercises and real world industrial examples are included throughout and a companion website hosting a solution manual is also available. *Hydrostatic Transmissions and Actuators* is an up to date and comprehensive textbook suitable for courses on fluid power systems and technology, and mechatronics systems design.

Connected customers, using a wide range of devices such as smart phones, tablets, and laptops have ushered in a new era of consumerism. Now more than ever, this change has prodded marketing departments to work with their various IT departments and technologists to expand consumers' access to content. In order to remain competitive, marketers must integrate marketing campaigns across these different devices and become proficient in using technology. *The Handbook of Research on Innovations in Technology and Marketing for the Connected Consumer* is a pivotal reference source that develops new insights into applications of technology in marketing and explores effective ways to reach consumers through a wide range of devices. While highlighting topics such as cognitive computing, artificial intelligence, and virtual reality, this publication explores practices of technology-empowered digital marketing as well as the methods of applying practices to less developed countries. This book is ideally designed for marketers, managers, advertisers, branding teams, application developers, IT specialists, academicians, researchers, and students.

The "family effect" remains a challenge for researchers interested in both the family firm's organizational form and in the effects of familial ownership on a firm's strategy, structure, and performance. Governance mechanisms, management quality, ownership concentration, and family involvement all have relevant effects in terms of influencing monitoring costs, investment decisions, the development of the portfolio of resources and capabilities, and family firm competitiveness. Nevertheless, few studies to date have opened the black box of the "family effect." *Competitiveness, Organizational Management, and Governance in Family Firms* is an essential reference source that makes a clear distinction between the separation of ownership and management, on the one hand, and the institutional development of family governance instruments, on the other, to help uncover the asymmetric effects of these two choices. It also allows the examination as to which of the two strategies employed in family firms reinforce managerial capital that has a greater positive impact on the "family effect," thus helping to achieve better managerial capabilities. Featuring research on topics such as corporate governance, private business, and successional leadership, this book is ideally designed for managers, executives, CEOs, company owners, consultants, business professionals, entrepreneurs, academicians, and researchers interested in an in-depth understanding of the keys to success and survival of family-operated organizations.

Mustang and Corvette are the only two models that have won the Motor Trend Car of the Year twice. While each American original has followed a different path throughout the years, they are both in the same class in regards to quality and popularity. Can one really be better than the other? Readers will be presented with stats, fun facts, and handy charts to help settle this car battle for themselves.

The AVEC symposium is a leading international conference in the fields of vehicle dynamics and advanced vehicle control, bringing together scientists and engineers from academia and automotive industry. The first symposium was held in 1992 in Yokohama, Japan. Since then, biennial AVEC symposia have been established internationally and have considerably contributed to the progress of technology in automotive research and development. In 2016 the 13th International Symposium on Advanced Vehicle Control (AVEC '16) was held in Munich, Germany, from 13th to 16th of September 2016. The symposium was hosted by the Munich University of Applied Sciences. AVEC '16 puts a special focus on automatic driving, autonomous driving functions and driver assist systems, integrated control of interacting control systems, controlled suspension systems, active wheel torque distribution, and vehicle state and parameter estimation. 132 papers were presented at the symposium and are published in these proceedings as full paper contributions. The papers review the latest research developments and practical applications in highly relevant areas of vehicle control, and may serve as a reference for researchers and engineers.

This is the time when legacy, pathogenic, and emerging contaminants must be talked about, understood, and dealt with together. While the geogenic contamination of the groundwater is a well-established phenomenon that

is considered as legacy contaminants that risk people's health globally, both pathogenic and emerging contaminants like various water-borne pathogens and pharmaceutical personal care products (PPCPs) are becoming imperative for their acute and chronic toxic effects. While contaminated groundwater consumption leads to skin pigmentation, hyperkeratosis, kidney damage, cardiovascular disease, and children's overall development, poor sanitation-related pathogenic microorganisms cause a significant number of child and prenatal deaths. Simultaneously, antibiotic microbial resistance (AMR) is expected to kill 100 million people by 2050. However, there are rare texts that combine aspects of all these three under a single book cover. This book gives an understanding of the occurrence, fate, and transport of geogenic, microbial, and anthropogenic contaminants in the groundwater. It covers not only the scientific and technical aspects but also environmental, legal, and policy aspects for contaminant management in the environment under the paradigm shift of COVID-19. This book is intended to bring the focus on the natural contaminants—biotic or abiotic—in the post-COVID Anthropocene, which is illustrating a significant alteration of systems and the subsequent downstream impacts owing to globalization. This book has compiled global work on emergence, mass flow, partitioning, and activation of geogenic, emerging, and pathogenic contaminants in various spheres of environment with special emphasis on soil, sediment, and aquatic systems for enhancing the understanding on their migration and evolution for the welfare of mankind.

Medium- and heavy-duty trucks, motor coaches, and transit buses - collectively, "medium- and heavy-duty vehicles", or MHDVs - are used in every sector of the economy. The fuel consumption and greenhouse gas emissions of MHDVs have become a focus of legislative and regulatory action in the past few years. This study is a follow-on to the National Research Council's 2010 report, *Technologies and Approaches to Reducing the Fuel Consumption of Medium- and Heavy-Duty Vehicles*. That report provided a series of findings and recommendations on the development of regulations for reducing fuel consumption of MHDVs. On September 15, 2011, NHTSA and EPA finalized joint Phase I rules to establish a comprehensive Heavy-Duty National Program to reduce greenhouse gas emissions and fuel consumption for on-road medium- and heavy-duty vehicles. As NHTSA and EPA began working on a second round of standards, the National Academies issued another report, *Reducing the Fuel Consumption and Greenhouse Gas Emissions of Medium- and Heavy-Duty Vehicles, Phase Two: First Report*, providing recommendations for the Phase II standards. This third and final report focuses on a possible third phase of regulations to be promulgated by these agencies in the next decade. This book focuses on various challenges, solutions, and emerging technologies in the operation, control, design, optimization, and protection of microgrids in the presence of hybrid renewable energy sources and electric vehicles. This book provides an insight into the potential applications and recent development of different types of renewable energy systems including AC/DC microgrids, RES integration issues with the grid, electric vehicle technology, etc. The book serves as an interdisciplinary platform for the audience working in the focused area to access information related to energy management, modeling, and control. It covers fundamental knowledge, design, mathematical modeling, applications, and practical issues with sufficient design problems and case studies with detailed planning aspects. This book will serve as a guide for researchers, academicians, practicing engineers, professionals, and scientists, as well as for graduate and postgraduate students working in the area of various applications of RES, Electric Vehicles, and AC/DC Microgrid.

Electric Vehicle Integration in a Smart Microgrid Environment

The growing demand for energy in today's world, especially in the Middle East and Southeast Asia, has been met with massive exploitation of fossil fuels, resulting in an increase in environmental pollutants. In order to mitigate the issues arising from conventional internal combustion engine-powered vehicles, there has been a considerable acceleration in the adoption of electric vehicles (EVs). Research has shown that the impact of fossil fuel use in transportation and surging demand in power owing to the growing EV charging infrastructure can potentially be minimized by smart microgrids. As EVs find wider acceptance with major advancements in high efficiency drivetrain and vehicle design, it has become clear that there is a need for a system-level understanding of energy storage and management in a microgrid environment. Practical issues, such as fleet management, coordinated operation, repurposing of batteries, and environmental impact of recycling and disposal, need to be carefully studied in the context of an ageing grid infrastructure. This book explores such a perspective with contributions from leading experts on planning, analysis, optimization, and management of electrified transportation and the transportation infrastructure. The primary purpose of this book is to capture state-of-the-art development in smart microgrid management with EV integration and their applications. It also

aims to identify potential research directions and technologies that will facilitate insight generation in various domains, from smart homes to smart cities, and within industry, business, and consumer applications. We expect the book to serve as a reference for a larger audience, including power system architects, practitioners, developers, new researchers, and graduate-level students, especially for emerging clean energy and transportation electrification sectors in the Middle East and Southeast Asia. The Federal Regulatory Directory, Seventeenth Edition continues to offer a clear path through the maze of complex federal agencies and regulations, providing to-the-point analysis of regulations. Information-packed profiles of more than 100 federal agencies and departments detail the history, structure, purpose, actions, and key contacts for every regulatory agency in the U.S. government. Now updated with an improved searching structure, the Federal Regulatory Directory continues to be the leading reference for understanding federal regulations, providing a richer, more targeted exploration than is possible by cobbling together electronic and print sources. This book presents an overview of the latest smart transportation systems, IoV connectivity frameworks, issues of security and safety in VANETs, future developments in the IoV, technical solutions to address key challenges, and other related topics. A connected vehicle is a vehicle equipped with Internet access and wireless LAN, which allows the sharing of data through various devices, inside as well as outside the vehicle. The ad-hoc network of such vehicles, often referred to as VANET or the Internet of vehicles (IoV), is an application of IoT technology, and may be regarded as an integration of three types of networks: inter-vehicle, intra-vehicle, and vehicular mobile networks. VANET involves several varieties of vehicle connectivity mechanisms, including vehicle-to-infrastructure (V2I), vehicle-to-vehicle (V2V), vehicle-to-cloud (V2C), and vehicle-to-everything (V2X). According to one survey, it is expected that there will be approximately 380 million connected cars on the roads by 2020. IoV is an important aspect of the new vision for smart transportation. The book is divided into three parts: examining the evolution of IoV (basic concepts, principles, technologies, and architectures), connectivity of vehicles in the IoT (protocols, frameworks, and methodologies), connected vehicle environments and advanced topics in VANETs (security and safety issues, autonomous operations, machine learning, sensor technology, and AI). By providing scientific contributions and workable suggestions from researchers and practitioners in the areas of IoT, IoV, and security, this valuable reference aims to extend the body of existing knowledge. Having this book in your pocket is just like having a real marque expert by your side. Benefit from the author ' s years of Mustang ownership, learn how to spot a bad car quickly, and how to assess a promising car like a professional. Get the right car at the right price! This book steers buyers through the the confusion and anxiety of new and used vehicle purchases unlike any other car-and-truck book on the market. " Dr. Phil, " Canada ' s best-known automotive expert for more than forty-five years, pulls no punches. The Federal Regulatory Directory, Eighteenth Edition continues to offer a clear path through the maze of complex federal agencies and regulations, providing to-the-point analysis of regulations. Information-packed profiles of more than 100 federal agencies and departments detail the history, structure, purpose, actions, and key contacts for every regulatory agency in the U.S. government. Now updated with an improved searching structure, the Federal Regulatory Directory continues to be the leading reference for understanding federal regulations, providing a richer, more targeted exploration than is possible by cobbling together electronic and print sources. Energy is one of the most important factors of production. Its efficient use is crucial for ensuring production and environmental quality. Unlike normal goods with supply management, energy is demand managed. Efficient energy use—or energy efficiency—aims to reduce the amount of energy required to provide products and services. Energy use efficiency can be achieved in situations such as housing, offices, industrial production, transport and agriculture as well as in public lighting and services. The use of energy can be reduced by using technology that is energy saving. This Special Issue is a collection of research on energy use efficiency. Andreas Hazir is investigating the door seal contribution to the interior noise level of production vehicles. These investigations contain experimental contribution analyses of real production vehicles and of academic test cases as well as the development of a simulation methodology for noise transmission through sealing systems and side windows. The simulations are realized by coupling transient computational aeroacoustics of the exterior flow to nonlinear finite element simulations of the structural transmission. By introducing a linear transmission model, the setup and computational costs of the seal noise transmission are significantly reduced, resulting in the feasibility of numerical contribution analyses of real production vehicles. Researchers rethink tactics for inventing and disseminating research, examining the use of such unconventional forms as poetry,

performance, catalogs, interactive machines, costume, and digital platforms. Transmission is the research moment when invention meets dissemination—the tactical combination of making (how theory, methods, and data shape research) and communicating (how research is shown and shared). In this book, researchers from a range of disciplines examine tactics for the transmission of research, exploring such unconventional forms as poetry, performance, catalogs, interactive machines, costume, and digital platforms. Focusing on transmissions draws attention to a critical part of the research process commonly overlooked and undervalued. Too often, the results of radically experimental research methodologies are pressed into conventional formats. The contributors to *Transmissions* rethink tactics for making and communicating research as integral to the kind of projects they do, pushing against disciplinary edges with unexpected and creative combinations and collaborations. Each chapter focuses on a different tactic of transmission. One contributor merges literary styles of the empirical and poetic; another uses an angle grinder to construct machines of enquiry. One project invites readers to participate in an exchange about value; another provides a series of catalog cards to materialize ordering systems of knowledge. All the contributors share a commitment to uniting the what with the how, firmly situating their transmissions in their research and in each unique chapter of this book. Contributors Nerea Calvillo, Rebecca Coleman, Larissa Hjorth, Janis Jefferies, Kat Jungnickel, Sarah Kember, Max Liboiron, Kristina Lindström, Alexandra Lippman, Bonnie Mak, Julien McHardy, Julia Pollack, Ingrid Richardson, Åsa Ståhl, Laura Watts Alan C. Elliott and Wayne A. Woodward

's *Quick Guide to IBM® SPSS®: Statistical Analysis With Step-by-Step Examples* gives students the extra guidance with SPSS they need without taking up valuable in-class time. A practical, accessible guide for using software while doing data analysis in the social sciences, students can learn SPSS on their own, allowing instructors to focus on the concepts and calculations in their lectures, rather than SPSS tutorials. Designed to work across disciplines, the authors have provided a number of SPSS "step-by-step" examples in chapters showing the user how to plan a study, prepare data for analysis, perform the analysis and interpret the output from SPSS. The new Third Edition covers IBM® SPSS® version 25, includes a new section on Syntax, and all chapters have been updated to reflect current menu options along with many SPSS screenshots, making the process much simpler for the user. In addition, helpful hints and insights are provided through the features "Tips and Caveats" and "Sidebars."

Heavy-Duty Electric Vehicles: From Concept to Reality presents a step-by-step design and development guide for heavy-duty electric vehicles. It also offers practical insights based on the commercial application of an electric city bus. Heavy-duty electric vehicle design is challenging due to a lack of clear understanding of the government policies, R&D directions and uncertainty around the performance of various subsystems in an electric powertrain. Therefore, this book discusses key technical aspects of motors, power electronics, batteries and vehicle control systems, and outlines the system integration strategies necessary for design and safe operation of electric vehicles in practice. This comprehensive book serves as a guide to engineers and decision makers involved in electric vehicle development programs and assists them in finding the suitable electric powertrain solution for a given heavy-duty vehicle application. Offers an overview of various standards and regulations that guide the electric vehicle design process and a comprehensive discussion on various government policies and incentive schemes propelling the growth of heavy electric vehicle markets across the world; Provides a comparative evaluation of different electric drivetrain concepts and a step-by-step power calculation guide for heavy-duty electric powertrain; Explains material selection and manufacturing methods for next generation batteries; Discusses key elements and design rules for creating a robust high voltage energy storage system, appropriate packaging and its support systems including charging network; Includes a concise description of torque mapping, power management and fault handling strategies for inverter drive and control systems; Features case studies to better understand complex topics like charging system requirements and vehicle control system diagnostics.

Every year, the international transmission and drive community meets up at the International CTI SYMPOSIA – automotive drivetrains, intelligent, electrified – in Germany, China and USA to discuss the best strategies and technologies for tomorrow's cars, busses and trucks. From efficiency, comfort or costs to electrification, energy storage and connectivity, these premier industry meetings cover all the key issues in depth. This book presents papers from the International Conference on Power Transmissions 2016, held in Chongqing, China, 27th-30th October 2016. The main objective of this conference is to provide a forum for the most recent advances, addressing the challenges in modern mechanical transmissions. The conference proceedings address all aspects of gear and power transmission technology and a range of applications. The presented papers are

catalogued into three main tracks, including design, simulation and testing, materials and manufacturing, and industrial applications. The design, simulation and testing track covers topics such as new methods and designs for all types of transmissions, modelling and simulation of power transmissions, strength, fatigue, dynamics and reliability of power transmissions, lubrication and sealing technologies and theories, and fault diagnosis of power transmissions. In the materials and manufacturing track, topics include new materials and heat treatment of power transmissions, new manufacturing technologies of power transmissions, improved tools to predict future demands on production systems, new technologies for ecologically sustainable productions and those which preserve natural resources, and measuring technologies of power transmissions. The proceedings also cover the novel industrial applications of power transmissions in marine, aerospace and railway contexts, wind turbines, the automotive industry, construction machinery, and robots. This book offers a snapshot of the latest research and developments in road and railway vehicle dynamics. Gathering peer-reviewed contributions to the 27th Symposium of the International Association of Vehicle System Dynamics (IAVSD), held online on August 17 – 19, 2021, from Saint Petersburg, Russia, it offers extensive information for both researchers and professionals in the field of ground vehicle dynamics, control and design. It covers cutting-edge methods and solutions for solving ground vehicle system dynamics-related problems, concerning control and monitoring, performance, safety and braking of road and rail vehicles, including electric and autonomous ones. Further, it reports on significant advances in vehicle design, and important applications to improve ride comfort. Overall, the book provides academics and professional with a timely reference guide on theories and methods to understand, analyze and improve vehicle stability and dynamics in a broad range of different operating conditions. Chapter "Experimental Validation of a Semi-physical Modelling Approach of the Influence of Tyre Rotation on the Vertical Tyre Force Transmission and Tyre Kinematics" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com. This book gathers the proceedings of the 15th IFToMM World Congress, which was held in Krakow, Poland, from June 30 to July 4, 2019. Having been organized every four years since 1965, the Congress represents the world's largest scientific event on mechanism and machine science (MMS). The contributions cover an extremely diverse range of topics, including biomechanical engineering, computational kinematics, design methodologies, dynamics of machinery, multibody dynamics, gearing and transmissions, history of MMS, linkage and mechanical controls, robotics and mechatronics, micro-mechanisms, reliability of machines and mechanisms, rotor dynamics, standardization of terminology, sustainable energy systems, transportation machinery, tribology and vibration. Selected by means of a rigorous international peer-review process, they highlight numerous exciting advances and ideas that will spur novel research directions and foster new multidisciplinary collaborations. From mobile, cable-free re-charging of electric vehicles, smart phones and laptops to collecting solar electricity from orbiting solar farms, wireless power transfer (WPT) technologies offer consumers and society enormous benefits. Written by innovators in the field, this comprehensive resource explains the fundamental principles and latest advances in WPT and illustrates key applications of this emergent technology. Key features and coverage include: The fundamental principles of WPT to practical applications on dynamic charging and static charging of EVs and smartphones. Theories for inductive power transfer (IPT) such as the coupled inductor model, gyrator circuit model, and magnetic mirror model. IPTs for road powered EVs, including controller, compensation circuit, electro-magnetic field cancel, large tolerance, power rail segmentation, and foreign object detection. IPTs for static charging for EVs and large tolerance and capacitive charging issues, as well as IPT mobile applications such as free space omnidirectional IPT by dipole coils and 2D IPT for robots. Principle and applications of capacitive power transfer. Synthesized magnetic field focusing, wireless nuclear instrumentation, and future WPT. A technical asset for engineers in the power electronics, internet of things and automotive sectors, *Wireless Power Transfer for Electric Vehicles and Mobile Devices* is an essential design and analysis guide and an important reference for graduate and higher undergraduate students preparing for careers in these industries. This book describes the fundamentals and applications of wireless power transfer (WPT) in electric vehicles (EVs). Wireless power transfer (WPT) is a technology that allows devices to be powered without having to be connected to the electrical grid by a cable. Electric vehicles can greatly benefit from WPT, as it does away with the need for users to manually recharge the vehicles' batteries, leading to safer charging operations. Some wireless chargers are available already, and research is underway to develop even more efficient and practical chargers for EVs. This book brings readers up to date on the state-of-the-art worldwide. In particular, it

provides:

- The fundamental principles of WPT for the wireless charging of electric vehicles (car, bicycles and drones), including compensation topologies, bi-directionality and coil topologies.
- Information on international standards for EV wireless charging.
- Design procedures for EV wireless chargers, including software files to help readers test their own designs.
- Guidelines on the components and materials for EV wireless chargers.
- Review and analysis of the main control algorithms applied to EV wireless chargers.
- Review and analysis of commercial EV wireless charger products coming to the market and the main research projects on this topic being carried out worldwide.

The book provides essential practical guidance on how to design wireless chargers for electric vehicles, and supplies MATLAB files that demonstrate the complexities of WPT technology, and which can help readers design their own chargers. Every year global automakers introduce new or significantly re-engineered passenger vehicles with increasingly advanced technology intended to exceed consumer expectations and satisfy increasingly stringent government regulations. Some of these technologies are firsts-of-their-kind and start trends that other automakers soon follow—with the innovations becoming adopted across the board. The supply community is also increasingly playing a more significant role in helping the original equipment manufacturers research, develop, and introduce the latest engineering innovations that help bring competitive advantage for their automaker partners. Each year, the editors of SAE 's Automotive Engineering magazine publish many articles focused on the technology and engineering innovations of new passenger and concept vehicles, and these articles have been collected into this volume. This 2015 Passenger Car and 2014 Concept Car Yearbook is the fourth in an ongoing series of books that provide yearly snapshots of the latest and greatest technologies introduced by the automotive industry. In this book, we explore from an OEM and supplier perspective the newest and most technically interesting production vehicles released for the 2015 model year. In addition, we also have included a technology-focused recap of the concept cars revealed during 2014. Readers will have, in one publication, a complete overview of the key advances that took place over the course of the year from around the world. Each new model is profiled in its own chapter with one or more articles by the award-winning editors and contributors of Automotive Engineering in this exclusive compilation of print and online content. The novel engineering aspects of each new vehicle are explored, with exclusive interviews of key engineers and product developers providing insights you can only get from Automotive Engineering. This book is published for the most technically-minded enthusiasts who are interested in new car technologies, as well as practicing automotive engineers who are interested in new engineering trends. Engineering trends explored focus on what engineers are doing to meet the sometimes conflicting consumer and governmental demands for improved vehicle fuel efficiency, performance, safety and comfort. In short, this book:

- Provides a single source for information on the key engineering trends of the year from both automaker and supplier perspectives.
- Allows the reader to skip to chapters that cover specific car models that interest them, or read about all models from beginning to end.
- Makes for dynamic book reading, with its large number of big, full-color images and easy-reading magazine format. A comprehensive and versatile treatment of an important and complex topic in vehicle design

Written by an expert in the field with over 30 years of NVH experience, Noise and Vibration Control of Automotive Body offers nine informative chapters on all of the core knowledge required for noise, vibration, and harshness engineers to do their job properly. It starts with an introduction to noise and vibration problems; transfer of structural-borne noise and airborne noise to interior body; key techniques for body noise and vibration control; and noise and vibration control during vehicle development. The book then goes on to cover all the noise and vibration issues relating to the automotive body, including: overall body structure; local body structure; sound package; excitations exerted on the body and transfer functions; wind noise; body sound quality; body squeak and rattle; and the vehicle development process for an automotive body. Vehicle noise and vibration is one of the most important attributes for modern vehicles, and it is extremely important to understand and solve NVH problems. Noise and Vibration Control of Automotive Body offers comprehensive coverage of automotive body noise and vibration analysis and control, making it an excellent guide for body design engineers and testing engineers. Covers all the noise and vibration issues relating to the automotive body Features a thorough set of tables, illustrations, photographs, and examples Introduces automotive body structure and noise and vibration problems Pulls together the diverse topics of body structure, sound package, sound quality, squeak and rattle, and target setting Noise and Vibration Control of Automotive Body is a valuable reference for engineers, designers, researchers, and graduate students in the fields of automotive body design and NVH. “ Dr. Phil, ” Canada ' s

best-known automotive expert, invites another driver to come aboard. After forty-six years and almost two million copies sold, Phil Edmonston is joined by a co-pilot for the Lemon-Aid Guide — George Iny, along with the editors of the Automobile Protection Association. The 2017 Lemon-Aid has everything: an encyclopedic lineup of the best and worst cars, trucks, and SUVs sold since 2007; secret warranties and tips on the “ art of complaining ” to help you get your money back; and new-car buying tips that will save you tons of money by revealing the inflated cost of fancy and frivolous add-ons. Lemon-Aid is an essential guide for careful buyers and long-time gear-heads who don't know as much as they think.

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 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. Automation Engineering (MDMAE2014) is to provide a platform for all researchers in the field of Mechanical, Manufacture, Automation and Material Engineering to share the most advanced knowledge from both academic and industrial world, and to communicate with each other about their experiences and the most up-to-date research achievements, discussing forward issues and future prospects, seeking a better way to solve practical problems in this fields. As the first international conference on MDMAE, consisting of five main topics: Mechanical Engineering, Automation Engineering, Manufacturing Systems, Materials Engineering and Measurement and Test, which offer attendees free space to present their inspiring works and academic achievements mixed with the atmosphere of industry and academia, it has attracted many scholars, researchers and practitioners in these fields from various countries to get together in this conference, sharing their latest research achievements with each other , enriching their professional knowledge and broadening their horizons as well. Electric Vehicles for Smart Cities: Trends, Challenges, and Opportunities uniquely examines different approaches to electric vehicle deployment in the context of smart cities. It provides a holistic picture of electromobility within urban areas, offering an integrated approach to city transportation systems by considering the energy systems, latest vehicle technologies, and transport infrastructure. Electric Vehicles for Smart Cities addresses the interaction between grid infrastructure, vehicles, costs and benefits, and operational reliability within an integrated framework. The book examines the role electric vehicles play in the social and political aspects of climate change mitigation, as well as a renewable energy-based economy. It explains how electric vehicles and their system requirements work, including recharging techniques and infrastructures, and discusses alternative market deployment approaches. Includes case studies from cities around the world, including Amsterdam, London, Oslo, Barcelona, Los Angeles, New York, Silicon Valley, Los Angeles, Beijing, Shanghai, Tianjin, Tokyo, and Goto Islands Traces the developments, innovations, advantages, and disadvantages in the electric car industry Provides learning aids such as discussion questions and text boxes

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