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Proceedings of the European Automotive Congress EAEC-ESFA 2015 SAE International

This book is a printed edition of the Special Issue "Sustainable Freight Transport" that was published in Sustainability

Strategic Marketing in Fragile Economic Conditions Nicolae Sfetcu

"This book provides relevant theoretical frameworks and the latest empirical research findings relating to consumer confidence, marketing strategies, and the influence of trust during a time of economic crisis"--Provided by publisher.

Power Electronics and Electric Drives for Traction Applications CRC Press

Information on all aspects of vehicle engineering. Includes charts, diagrams. Basic principles upwards.

Modeling, Dynamics, and Control of Electrified Vehicles BoD – Books on Demand

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 5: Advanced Transmission System and Driveline focuses on: • Clutch System and Controls • Gear Systems and Driveline • Advanced Transmission System • Transmission Control System Above all researchers, professional engineers and graduates in fields of automotive engineering, mechanical engineering and electronic engineering will benefit from this book. SAE-China is a national academic organization composed of enterprises and professionals who focus on research, design and education in the fields of automotive and related industries. FISITA is the umbrella organization for the national automotive societies in 37 countries around the world. It was founded in Paris in 1948 with the purpose of bringing engineers from around the world together in a spirit of cooperation to share ideas and advance the technological development of the automobile.

Automotive Handbook The Stationery Office

Power Electronics and Electric Drives for Traction Applications offers a practical approach to understanding power electronics applications in transportation systems ranging from railways to electric vehicles and ships. It is an application-oriented book for the design and development of traction systems accompanied by a description of the core technology. The first four introductory chapters describe the common knowledge and background required to understand the preceding chapters. After that, each application-specific chapter: highlights the significant manufacturers involved; provides a historical account of the technological evolution experienced; distinguishes the physics and mechanics; and where possible, analyses a real life example and provides the necessary models and simulation tools, block diagrams and simulation based validations. Key features: Surveys power electronics state-of-the-art in all aspects of traction applications. Presents vital design and development knowledge that is extremely important for the professional community in an original, simple, clear and complete manner. Offers design guidelines for power electronics traction systems in high-speed rail, ships, electric/hybrid vehicles, elevators and more applications. Application-specific chapters co-authored by traction industry expert. Learning supplemented by tutorial sections, case studies and MATLAB/Simulink-based simulations with data from practical systems. A valuable reference for application engineers in traction industry responsible for design and development of products as well as traction industry researchers, developers and graduate students on power electronics and motor drives needing a reference to the application examples.

Chassis Handbook MDPI

This e-book details the most interesting and important characteristics of the automobiles, car maintenance, styling features, car body style, the standard classification of the cars, an history of the automobiles, introduction in the automotive industry, and the traffic code, rules and signs. An automobile, usually called a car (an old word for carriage) or a truck, is a wheeled vehicle that carries its own engine. Older terms include horseless carriage and motor car, with "motor" referring to what is now usually called the engine. It has seats for the driver and, almost without exception, for at least one passenger. The automobile was hailed as an environmental improvement over horses when it was first introduced. Before its introduction, in New York City, over 10,000 tons of manure had to be removed from the streets daily. However, in 2006 the automobile is one of the primary sources of worldwide air pollution and cause of substantial noise and health effects.

Applications of Power Electronics McFarland

In spite of all the assistance offered by electronic control systems, the latest generation of passenger car chassis still relies on conventional chassis elements. With a view towards driving dynamics, this book examines these conventional elements and their interaction with mechatronic systems. First, it describes the fundamentals and design of the chassis and goes on to examine driving dynamics with a particularly practical focus. This is followed by a detailed description and explanation of the modern components. A separate section is devoted to the axles and processes for axle development. With its revised illustrations and several updates in the text and list of references, this new edition already includes a number of improvements over the first edition.

Motor Industry Management Springer Science & Business Media

This edited volume presents new insights and challenges in the field of electric mobility in relation to new mobility and infrastructure concepts as well as to renewable energies. The book covers the socio-economic view on the topic as well as technical aspects and thus offers valuable knowledge for future business models. It primarily addresses practitioners and researchers in the field but may also be of use to graduate students.

Alpine & Renault Springer

An examination of the greening of the automotive industry by the path dependence of countries and carmakers' trajectories. Three sources of path dependency can be detected: business models, consumer attitudes, and policy regulations. The automobile is changing and the race towards alternative driving systems has started!

Lithium-Ion Batteries Springer Science & Business Media

Welcomed at end of the 19th century as the solution to the severe problem of horse manure in city streets, electric trucks soon became the norm for short-haul commercial deliveries. Though reliable, they were gradually replaced by gasoline-powered trucks for long-haul deliveries--although a fleet of electric milk trucks survived in Great Britain into the 1960s. Industrial electric vehicles never disappeared from factories and ports. During the past decade, with the availability of the lithium-ion battery, the electric truck is back on the road for all payloads and all distances. The fourth in a series covering the history and future of electric transport, this book chronicles the work of the innovative engineers who perfected e-trucks large and small.

Urban Freight Analytics Newnes

Urban Freight Analytics examines the key concepts associated with the development and application of decision support tools for evaluating and implementing city logistics solutions. New analytical methods are required for effectively planning and operating emerging technologies including the Internet of Things (IoT), Information and Communication Technologies (ICT), and Intelligent Transport Systems (ITS). The book provides a comprehensive study of modelling and evaluation approaches to urban freight transport. It includes case studies from Japan, the US, Europe, and Australia that illustrate the experiences of cities that have already implemented city logistics, including analytical methods that address the complex issues associated with adopting advanced technologies such as autonomous vehicles and drones in urban freight transport. Also considered are future directions in urban freight analytics, including hyperconnected city logistics based on the Physical Internet (PI), digital twins, gamification, and emerging technologies such as connected and autonomous vehicles in urban areas. An integrated modelling platform is described that considers multiple stakeholders or agents, including emerging organisations such as PI companies and entities such as crowd-shippers as well as traditional stakeholders such as shippers, receivers, carriers, administrators, and residents. This book Presents procedures for evaluating city logistics technologies and policy measures Provides an overview of advanced modelling approaches, including agent-based model and machine learning Highlights the essential features of optimisation and simulation models applied to city logistics Discusses how models incorporating more uncertainty and dynamic data can be used to improve the sustainability and resilience of urban freight systems The book is ideal for graduate students in civil and environmental engineering and logistics management, urban planners, transport engineers, and logistics specialists.

Lost City of the Templars CRC Press

Modelling, Dynamics and Control of Electrified Vehicles provides a systematic overview of EV-related key components, including batteries, electric motors, ultracapacitors and system-level approaches, such as energy management systems, multi-source energy optimization, transmission design and control, braking system control and vehicle dynamics control. In addition, the book covers selected advanced topics, including Smart Grid and connected vehicles. This book shows how EV work, how to design them, how to save energy with them, and how to maintain their safety. The book aims to be an all-in-one reference for readers who are interested in EVs, or those trying to understand its state-of-the-art technologies and future trends. Offers a comprehensive knowledge of the multidisciplinary research related to EVs and a system-level understanding of technologies Provides the state-of-the-art technologies and future trends Covers the fundamentals of EVs and their methodologies Written by successful researchers that show the deep understanding of EVs

Renault 8 Gordini Engine Springer Science & Business Media

Consumer demand for plug-in vehicles remains very low and the Government grant to encourage demand may not be proving effective. The Government must do more to show that its plug-in vehicle strategy is a good use of public money. Carbon emissions from transport must be reduced if the UK is to meet its climate change targets, but public money must be targeted on effective policies. So far, Department for Transport expenditure on plug-in cars - some £11 million - has benefited just a handful of motorists. There is a risk that the Government is basically subsidising second cars for affluent households. It is also unclear whether the provision of public charging infrastructure encourages demand for plug-in cars. Indeed, the Government does not even have a register of all the chargepoints installed at public expense

Biorefineries Independently Published

Good governance is good PR, it is important in every sphere of society, whether it be the corporate environment, the political, or wider society. When resources are too limited to meet the minimum expectations of the people, it is a good governance level that can help to promote the welfare of society. Enlightened companies recognise that there is a clear link between governance and corporate social responsibility and make efforts to link the two. Unfortunately this is too often no more than making a claim that good governance is a part of their CSR policy as well as a part of their relationship with shareholders. Corporate Governance and CSR are significant issues in all parts of the world, huge amounts of time and energy are devoted to its global interpretation. Most analysis however is too simplistic to be helpful as it normally resolves itself into simple dualities: rules based v principles based or Anglo-Saxon v Continental. The editors of this book argue that this is not helpful - that the reality is far more complex. They show that Corporate Governance and CSR cannot be understood without taking geographical, cultural and historical factors into account. It is necessary, they say to understand the concerns of people in different parts of the world. Therefore, by using a wealth of case studies, theoretical models, and drawing on the knowledge and perspective of experts from around the world, the editors have produced this valuable book. Global Perspectives on Corporate Governance and CSR discusses issues such as regional and cultural similarities and differences, the contexts of differing legal frameworks and governance codes, differences between large companies and SMEs, governance in new environments (companies and economies) versus stable environments, and the changing environment affecting corporate social responsibility around the world. The editors then synthesise this in a way that will be helpful to business people as well as to academics.

Workshop Manual Engine Volvo, Peugeot, Renault, de Lorean Penguin Cars.

Proceedings of the FISITA 2012 World Automotive Congress Penguin

Complete Handbook for the V6-Europe-Engine (Peugeot, Volvo, Renault, Alpine, De Lorean and others)

Motor Industry Magazine Springer

Currently, it is obvious that new types of production (Industry 4.0) are accompanying new ways of distribution, which advance logistics, physical distribution science, and even supply chain management. The changing environment for carrying out logistics activities is also important for the development of the supply chain. Care for ecology, the recent pandemic, and the situation in Ukraine are other reasons to adapt logistics to the

needs of an individual customer/recipient. It would be impossible without developing an appropriate strategy and applying appropriate tools for managing supply chains in the national and international dimensions. This book specifically addresses these issues. When analyzing the needs and structure of modern supply chains, in the context of their safety and risk reduction, it is impossible to ignore the problem of digitization, which allows for logistic analysis of the company, determining optimal routes, designing logistic systems, optimizing storage processes and costs, and predicting possible threats (crisis situations) and their effects (losses). IT support, automatic data exchange, e-logistics, telematics, traceability, and chatbots between various departments of the company along the upper and lower parts of the supply chain improve the flow of material and accompanying information through automation, robotization, proactivity, and document digitization. These new trends make it possible to define logistics as modern logistics using new achievements of science and technology. Modern logistics must also consider ecological aspects in line with assumptions about protecting the environment and improving our climate. Efficiently organized reverse logistics is not without significance for ecology. It is supported by renewable energy, electric vehicles, proper education in the field of a closed economy, cleaner production, waste minimization, the use of passive infrastructure, and proper waste management that allows us to positively influence environmental protection and human health. To meet the needs of creating modern supply chains, the authors developed this powerful book in which they analyze and present current and future solutions that influence the development of these issues in modern reverse logistics.

The Motor Industry of Great Britain Newnes

The book is intended for students in engineering school or university, young engineers or newcomers in the automotive industry or aeronautics. The objective is to describe in a simple and clear way the problem of energy and motorization for the automobile, helicopters or airplanes. The front-end treatment of these industrial sectors makes it possible to analyze in an original way the similarities and differences of these different means of transport. For this, and based on current technologies and tomorrow, it specifically describes the problem of the energy requirement of cars and aircraft. The result is a search for an ideal motorization associated with the behavior of these different means of transport followed by the analysis of the performances of the various types of engines by covering gas turbines, internal combustion engines and electric motors. Transmission elements such as aerospace gearboxes or gearboxes are described as well as a chapter on energy storage means and their performance including batteries, supercapacitors, inertial or pneumatic storage, hydrogen or fuels from fossil fuels. A final chapter shows the interest and prospects of energy hybridization and electrification for the progressive replacement of fossil fuels. Beyond the technological descriptions, the book focuses on proposing basic sizing rules in order to justify certain performances and to give the reader the means to appropriate the basic know-how of these industrial sectors.

Pocket Mechanic for Renault Kangoo II CRC Press

From the factory to the road, browse through more than 170 cool cars — from hatchbacks to hybrids — in *Pocket Genius: Cars*. Trace the history of the automobile from early vintage cars to modern concept cars, limousines to coupes, and minivans to sports cars in this compact-size reference guide perfect for children ages 8–12. Redesigned in paperback, DK's best-selling *Pocket Genius* series is now available in an engaging compact and economical format that is ideal for both browsing and quick reference for use in school and at home. Catalog entries packed with facts provide at-a-glance information, while locator icons offer immediately recognizable references to aid navigation and understanding, and fact files round off the book with fun facts such as record breakers and timelines. Each pocket-size encyclopedia is filled with facts on subjects ranging from animals to history, cars to dogs, and Earth to space and combines a child-friendly layout with engaging photography and bite-size chunks of text that will encourage and inform even the most reluctant readers.

Earthtalk Penguin

Industrial biorefineries have been identified as the most promising routes to the creation of a bio-based economy. Partial biorefineries already exist in some energy crop, forest-based, and lignocellulosic product facilities. *Biorefineries: For Biomass Upgrading Facilities* examines the variety of different technologies which integrated bio-based industries use to produce chemicals; biofuels; food and feed ingredients; biomaterials; and power from biomass raw materials. Conversion technologies are also covered, since biomass can be converted into useful biofuels and biochemicals via biomass upgrading and biorefinery technologies. *Biorefineries: For Biomass Upgrading Facilities* will prove a practical resource for chemical engineers, and fuel and environmental engineers. It will also be invaluable in academic fields, providing useful information for both researchers and students.