

Automotive Charging Into The Future

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 Electric Vehicles and the Future of Energy Efficient Transportation
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China's Auto Evolution: From Artillery to Automaker SAE International

The electrification of shared fleets offers numerous benefits, including the reduction of local emissions of pollutants, which leads to ecological improvements such as the improvement of air quality. Electric Vehicles in Shared Fleets considers a holistic concept for a socio-technical system with a focus on three core areas: integrated mobility solutions, business models for economic viability, and information systems that support decision-making for the successful implementation and operation of electric vehicles in shared fleets. In this book, we examine different aspects within these areas including multimodal mobility, grid integration of electric vehicles, shared autonomous electric vehicle services, relocation strategies in shared fleets, and the challenge of battery life of electric vehicles. Insights into the future of transport are provided, which is predicted to be shared, autonomous, and electric. This will require the expansion of the charging infrastructure to provide adequate premises for the electrification of transportation and to create market demand. **Material Applications in Future Automotive Structure IET** The ambitious objectives of future road mobility, i.e. fuel efficiency, reduced emissions, and zero accidents, imply a paradigm shift in the concept of the car regarding its architecture, materials, and propulsion technology, and require an intelligent integration into the systems of transportation and power. ICT, components and smart systems have been essential for a multitude of recent innovations, and are expected to be key enabling technologies for the changes ahead, both inside the vehicle and at its interfaces for the exchange of data and power with the outside world. It has been the objective of the International Forum on Advanced Microsystems for Automotive Applications (AMAA) for almost two decades to detect novel trends and to discuss technological implications and innovation potential from day one on. In 2012, the topic of the AMAA conference is "Smart Systems for Safe, Sustainable and Networked Vehicles". The conference papers selected for this book address current research, developments and innovations in the field of ICT, components and systems and other key enabling technologies leading to the automobile and road transport of the future. The book focuses on application fields such as electrification, power train and vehicle efficiency, safety and driver assistance, networked vehicles, as well as components and systems. Additional information is available at www.amaa.de
The Global Rise of the Modern Plug-In Electric Vehicle Troubador Publishing Ltd

"China's Auto Evolution: From Artillery to Automaker" by the ChatStick Team is a fascinating deep-dive into the dramatic transformation of China's automobile industry! From humble beginnings in artillery manufacturing, China has journeyed through challenges and innovations to sit at the pinnacle of global automobile manufacturing. This book delves into the heart of this evolution, uncovering the drivers behind China's industrial triumph! Explore how China adapted to global trends, faced environmental challenges, survived a pandemic, and still managed to accelerate its growth. Get ready to witness a saga of determination, innovation, and strategic genius. Step into the future and explore what's in store for China's automobile industry! Autonomous vehicles? Renewable energy? It's all here! China's Auto Evolution: From Artillery to Automaker is more than a history book. It's a journey through time, technology, and sheer willpower. Don't miss out on this enlightening journey!

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Electric Vehicles and the Future of Energy Efficient Transportation Springer

This book details the design and technology of the on-line electric vehicle (OLEV) system and its enabling wireless power-transfer technology, the "shaped magnetic field in resonance" (SMFIR). The text shows how OLEV systems can achieve their three linked important goals: reduction of CO₂ produced by ground transportation; improved energy efficiency of ground transportation; and contribution to the amelioration or prevention of climate change and global warming. SMFIR provides power to the OLEV by wireless transmission from underground cables using an alternating magnetic field and the reader learns how this is done. This cable network will in future be part of any local smart grid for energy supply and use thereby exploiting local and renewable energy generation to further its aims. In addition to the technical details involved with design and realization of a fleet of vehicles combined with extensive subsurface charging infrastructure, practical issues such as those involved with pedestrian safety are considered. Furthermore, the benefits of reductions in harmful emissions without recourse to large banks of batteries are made apparent. Importantly, the use of Professor Suh's axiomatic design paradigm enables such a complicated transportation system to be developed at reasonable cost and delivered on time. The book covers both the detailed design and the relevant systems-engineering knowledge and draws on experience gained in the successful implementation of OLEV systems in four Korean cities. The introduction to axiomatic design and the in-depth discussion of system and technology development provided by The On-line Electric Vehicle is instructive to graduate students in electrical, mechanical and transportation engineering and will help engineers and designers to master the efficient, timely and to-cost implementation of

large-scale networked systems. Managers responsible for the running of large transportation infrastructure projects and concerned with technology management more generally will also find much to interest them in this book.

Lead-Acid Batteries for Future Automobiles Springer Science & Business Media

This book contains the proceeding of the 26th International Conference on Production Research (ICPR). ICPR is a biennial conference that has been hosted for more than a half century. It is regarded worldwide as one of the leading conferences of production research, industrial engineering, and related subjects. The acute impact of the pandemic on human lives is spurring further research and advances: because modern life relies on production and supply networks. The future of production calls for transformative research exploiting the possibilities of artificial intelligence in particular to respond to the challenge of sustainability. This book is of interest to researchers, students, and professionals in industry.

Inside Electric Cars John Wiley & Sons

Electric and hybrid vehicles are now the present, not the future. This straightforward and highly illustrated full colour textbook is endorsed by the Institute of the Motor Industry and introduces the subject for further education and undergraduate students as well as technicians. This new edition includes a new section on diagnostics and completely updated case studies. It covers the different types of electric vehicle, costs and emissions, and the charging infrastructure, before moving on to explain how hybrid and electric vehicles work. A chapter on electrical technology introduces learners to subjects such as batteries, control systems and charging which are then covered in more detail within their own chapters. The book also covers the maintenance and repair procedures of these vehicles, including fault finding, servicing, repair and first-responder information. Clear diagrams, photos and flow charts outline the charging infrastructure, how EV technology works, and how to repair and maintain hybrid and electric vehicles. Optional IMI online eLearning materials enable students to study the subject further and test their knowledge. It is particularly suitable for students studying towards IMI Level 2 Award in Hybrid Electric Vehicle Operation and Maintenance, IMI Level 3 Award in Hybrid Electric Vehicle Repair and Replacement, IMI Accreditation, C&G and other EV/Hybrid courses.

Conference on Future Automotive Technology Rodale Books
 With partnerships and developments in nations across the globe, Better Place seemed poised to succeed in the burgeoning electric vehicle market. Yet Better Place's proposition relied on a revolutionary shift in the automobile industry. Would the company witness the widespread adoption of electric vehicles in the near future, or would competing technologies, environmental regulation, financial considerations, or other players in the electric

vehicle market thwart Shai Agassi's plans?

Intelligent and Transformative Production in Pandemic Times Elsevier

Master's Thesis from the year 2017 in the subject Business economics - Offline Marketing and Online Marketing, grade: 1,3, University of applied sciences, Munich, language: English, abstract: The automotive industry is facing the biggest changes in its more than 100 years of existence. At the end of this decade, the first electric vehicle is going to enter the mass market that can compete on product features, comfort and price with the internal combustion engines. People keep moving into urban areas. The requirements toward future mobility increase. Some countries already decided to prefer electric vehicles to conventional cars. Profits will shift to other markets or segments. Incumbents must align their current strategies to keep their market share in the future and participate in future profit pools of the automotive industry. BMW and Tesla have different strategic approaches to the upcoming changes in the industry. BMW, as many other OEMs, is aware of future challenges and disruptive forces and has much more resources to manage the required investments in R&D than smaller start-ups. However, disruptive forces come from lower functionality and low-cost products that are usually overlooked by dominant firms in an industry. This research analyzes the two automotive companies BMW and Tesla by using the common strategy analysis tools. First, the firms' external environment is analyzed by using the PESTEL analysis, describing relevant trends that affect the strategic decision of the two companies. An industry overview with future projections is provided. Secondly, an internal analysis is performed. SWOT analysis and the VRIO framework form the basis to define the strengths, weaknesses, unique recourses and capabilities of BMW and Tesla. The conclusion provides an overall discussion of the most important findings emerging from the analysis with regard to the business operations and the existing business models of the two car manufacturers. Furthermore, important implications for the adaptation and adjustment processes are discussed.

High Voltage Emerald Group Publishing

The Future of Electric Vehicles

Chevrolet Volt GRIN Verlag

Pre-University Paper from the year 2018 in the subject Electrotechnology, grade: 1,3, , language: English, abstract: One million electric vehicles by 2020 was the federal government's goal. So far, only 53,861 purely electric cars are driving in Germany (as of January 1st, 2018). However, manufacturers are having to rely more and more on electrical engineering in order not to exceed the upper limit of the permitted CO2 emissions for cars. This upper limit is further reduced by politicians in order to reduce CO2 emissions in traffic. Cars with internal combustion engines will not be able to meet these future values. The importance of electric cars in the future is therefore a topic that is being discussed more and more frequently in the media, in politics and in business. In order to advance the energy transition, Lienkamp calls for an urgent rethinking of car use. With the statement "Because I go on vacation once a year, I don't have an Airbus in the garden" he tries to convince his listeners that an electric car does not have to drive 1000 km at a time if it is primarily used for the city. The key question in my seminar paper is whether the electric car, with its advantages and disadvantages, will be a future model for everyone in Germany. At the beginning I would like to give an overview of the topic of electric cars and describe the current situation in Germany. Among other things, I check the sustainability of the electric cars. Are they really as ecological as the proponents always say? Then I deal with the important topic of range, which is often described as insufficient. I will also explain the situation of the charging infrastructure today and in the future. Is the charging infrastructure already sufficient, and what needs to change in the future? The question of cost plays a relevant role and is an important decision point for many buyers. When will electric cars cost as much or even less than cars with internal combustion engines? Who will switch to an electric car and when in the future? I will deal with these questions and others in the topic of future viability of the electric car. The content of my investigation is limited to electromobility in the passenger car sector. In addition, I will only go into the development, the sensible use of pure electric cars and their future prospects in Germany and leave out global change. Hydrogen vehicles and hybrid vehicles are not taken into account.

ICICA 2022 JHU Press

A comprehensive discussion of the findings of the PICASSO initiative on ICT policy ICT Policy, Research, and Innovation: Perspectives and Prospects for EU-US Collaboration provides a clearly readable overview of selected information and communication technology (ICT) and policy topics. Rather than deluge the reader with technical details, the distinguished authors provide just enough technical background to make sense of the underlying policy discussions. The book covers policy, research, and innovation topics on technologies as wide-ranging as: Internet of Things Cyber physical systems 5G Big data ICT Policy, Research, and Innovation compares and contrasts the policy approaches taken by the EU and the US in a variety of areas. The potential for future cooperation is outlined as well. Later chapters

provide policy perspectives about some major issues affecting EU/US development cooperation, while the book closes with a discussion of how the development of these new technologies is changing our conceptions of fundamental aspects of society. **Grid Integration of Electric Mobility** Independently Published As public attention on energy conservation and emission reduction has increased in recent years, engine idling has become a growing concern due to its low efficiency and high emissions. Service vehicles equipped with auxiliary systems, such as refrigeration, air conditioning, PCs, and electronics, usually have to idle to power them. The number of service vehicles (e.g. public-school-tour buses, delivery-refrigerator trucks, police cars, ambulances, armed vehicles, firefighter vehicles) is increasing significantly with tremendous social development. Therefore, introducing new anti-idling solutions is inevitably vital for controlling energy unsustainability and poor air quality. There are a few books about the idling disadvantages and anti-idling solutions. Most of them are more concerned with different anti-idling technologies and their effects on the society rather than elaborating an anti-idling system design considering different applications and limitations. There is still much room to improve existing anti-idling technologies and products. In this book, we took a service vehicle, refrigerator truck, as an example to demonstrate the whole process of designing, optimizing, controlling, and developing a smart charging system for the anti-idling purpose. The proposed system cannot only electrify the auxiliary systems to achieve anti-idling, but also utilize the concepts of regenerative braking and optimal charging strategy to arrive at an optimum solution. Necessary tools, algorithms, and methods are illustrated and the benefits of the optimal anti-idling solution are evaluated.

Electric Vehicles In Shared Fleets: Mobility Management, Business Models, And Decision Support Systems Springer Nature

The 2022 2nd International Conference on Information, Control and Automation (ICICA 2022) was held on December 2nd-4th, 2022 in Chongqing, China (virtual event). Invited and contributed papers present the state-of-the-art research in information, control and automation. This workshop always welcomes a fruitful mix of experienced researchers and students, to allow a better understanding of related fields. The 2022 session of the information, control and automation was doubtlessly a great success. The program covered a wide variety of topics, namely Numerical Analysis, Information Theory, Genetic Algorithm, Distributed Control System, Industrial Control, Motors and Appliances, etc. The conference agenda was divided into two parts, including Keynote Speeches and Oral Presentations. ICICA 2022 is to bring together innovative academics and industrial experts in the field of Information, Control and Automation to a common forum. The primary goal of the conference is to promote research and developmental activities in Information, Control and Automation and another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working all around the world. The conference will be held every year to make it an ideal platform for people to share views and experiences in Information, Control and Automation and related areas. Everyone interested in these fields were welcomed to join the online conference and to give comments and raise questions to the speeches and presentations.

Moving Times Springer

Do you want to switch to an electric vehicle? Did you know that electric cars were first developed in the 1830s? Do you want to save money and help protect the environment too? Have you heard about the incentives offered by the government to electric car buyers? This book provides an overview of electric vehicles (EVs) beginning with their invention and early development in the early 19th century and reasons why their production was put on hold until modern times. Next you will learn about the many current advances in electric vehicles and how their batteries and technology function, the best reasons to choose EVs, EV charging stations with the best apps, what smart charging is, types of EV batteries, autonomous vehicles, government incentives for EVs, cost of charging EVs, social impact of EV, circular economy of EV, overall comparison between EV and internal combustion engine cars, understand the innovative technologies available for charging EVs, solar charging stations, battery swapping stations, and the future of EV. This helpful guide presents everything potential buyers need to know to make the best choice, considering important factors such as the cost of maintaining and operating an electric vehicle, and the potential challenges including the importance of checking the location of charging stations in your neighborhood and near your workplace. Get excited about taking advantage of the current incentives to make purchasing an electric vehicle even more economical. Lastly, get a sneak peek into the future of electric vehicles from Tesla Model S, Tesla Model 3, Tesla Model X, Kia e-Niro, Hyundai Kona Electric, Hyundai Ioniq Electric, Audi e-tron, Mercedes-Benz EQC, Jaguar I-Pace, Porsche Taycan, Nissan Leaf E+, Renault Zoe, BMW i3, and others. Dr. Taiwo Ayodele is a Lecturer, an Entrepreneur and an IT Consultant by profession. He is also an expert in Artificial Intelligence & Machine Learning, and Intelligent Systems. He is a consultant in Future Transportation and Sustainable Development

(Advisor), as well as author of many books, academic journal articles and conference papers and proceedings.

The On-line Electric Vehicle John Wiley & Sons

The UN Climate Change Conference in Paris, with its key topics of global warming and deteriorating air quality, will speed up the advance of electric mobility. CO2-neutral and zero-emission mobility require electricity to be generated from regenerative sources of energy. Power generation from wind and solar energy, however is dependent on the weather and is therefore not stable. The irregularities that occur in nature can result in unacceptable voltage fluctuations in the power grid. For that reason, the availability of highly flexible loads and storage systems is becoming particularly important. Electric vehicles, with their grid-relevant properties as controllable power consumers and electricity storage systems, could help to stabilize future power grids.

The Electric Vehicle Atlantic Books

We stand at the cusp of a mobility revolution unlike anything we have seen since the days of Gottlieb Daimler and Henry Ford, 130 years ago. Three massively significant and converging automotive trends – electrification, self-driving technology and car-sharing – will together transform the way we live, work, and move about in our increasingly urban environment. This book coins the term 'Mobility Revolution' and is a summary of the 'three zeroes' that are already defining the future for the automobile industry: Zero Emissions, Zero Accidents and Zero Ownership. The impact will go beyond the automotive industry and its suppliers – urban infrastructure, construction, logistics – and even local cafés will need to think and operate differently. Based on countless interviews, the book is highly current and thoroughly researched, whilst also fun to read. It is an eye-opener to the new world that awaits us as the Mobility Revolution unfolds. The Mobility Revolution is a must-read for anyone interested in the future of the automobile industry, our cities, and the way we live.

McGraw Hill Professional

Considerable work has gone into electric car and battery development in the last ten years, with the prospect of substantial improvements in range and performance in battery cars as well as in hybrids and those using fuel cells. This book covers the development of electric cars, from their early days, to new hybrid models in production. Most of the coverage is focused on the very latest technological issues faced by automotive engineers working on electric cars, as well as the key business factors vital for the successful transfer of electric cars into the mass market.

The electric car. A future model for everyone in Germany? GRIN Verlag

We may be standing on the precipice of a revolution in propulsion not seen since the internal combustion engine replaced the horse and buggy. The anticipated proliferation of electric cars will influence the daily lives of motorists, the economies of different countries and regions, urban air quality and global climate change. If you want to understand how quickly the transition is likely to occur, and the factors that will influence the predictions of the pace of the transition, this book will be an illuminating read.

Foreverism European Alliance for Innovation

The electric vehicle market has been gradually gaining prominence in the world due to the rise in pollution levels caused by traditional IC engine-based vehicles. The advantages of electric vehicles are multi-pronged in terms of cost, energy efficiency, and environmental impact. The running and maintenance cost are considerably less than traditional models. The harmful exhaust emissions are reduced, besides the greenhouse gas emissions, when the electric vehicle is supplied from a renewable energy source. However, apart from some Western nations, many developing and underdeveloped countries have yet to take up this initiative. This lack of enthusiasm has been primarily attributed to the capital investment required for charging infrastructure and the slow transition of energy generation from the fossil fuel to the renewable energy format. Currently, there are very few charging stations, and the construction of the same needs to be ramped up to supplement the growth of electric vehicles. Grid integration issues also crop up when the electric vehicle is used to either do supply addition to or draw power from the grid. These problems need to be fixed at all the levels to enhance the future of energy efficient transportation. **Electric Vehicles and the Future of Energy Efficient Transportation** explores the growth and adoption of electric vehicles for the purpose of sustainable transportation and presents a critical analysis in terms of the economics, technology, and environmental perspectives of electric vehicles. The chapters cover the benefits and limitations of electric vehicles, techno-economic feasibility of the technologies being developed, and the impact this has on society. Specific points of discussion include electric vehicle architecture, wireless power transfer, battery management, and renewable resources. This book is of interest for individuals in the automotive sector and allied industries, policymakers, practitioners, engineers, technicians, researchers, academicians, and students looking for updated information on the technology, economics, policy, and environmental aspects of electric vehicles.

Electric Cars For Dummies World Scientific

One hopes, as a new generation of electric vehicles becomes a reality, The Electric Vehicle offers a long-overdue reassessment of

the place of this technology in the history of street transportation.

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