Engine For Renault Kangoo

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Energy and Motorization in the Automotive and Aeronautics Industries Springer

From the factory to the road, browse through more than 170 cool cars--from hatchbacks to hybrids--in DK's 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 reference guide perfect for children ages 8-12. Catalog entries include facts provided at-a-glance information, while locator icons offer immediately recognizable references to aid navigation and understanding, and fact files round off the ebook with fun facts such as record breakers and timelines. Each mini-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.

Focus On: 100 Most Popular Sedans John Wiley & Sons

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.

Alpine And Renault Penguin

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.

Industrial Applications of Batteries Elsevier

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.

Motor Industry Magazine e-artnow sro

Power electronics technology is still an emerging technology, and it has found its way into many applications, from renewable energy generation (i.e., wind power and solar power) to electrical vehicles (EVs), biomedical devices, and small appliances, such as laptop chargers. In the near future, electrical energy will be provided and handled by power electronics and consumed through power electronics; this not only will intensify the role of power electronics technology in power conversion processes, but also implies that power systems are undergoing a paradigm shift, from centralized distribution to distributed generation. Today, more than 1000 GW of renewable energy generation sources (photovoltaic (PV) and wind) have been installed, all of which are handled by power electronics technology. The main aim of this book is to highlight and address recent breakthroughs in the range of emerging applications in power electronics and in harmonic and electromagnetic interference (EMI) issues at device and system levels as discussed in ↑ robust and reliable power electronics technologies, including fault prognosis and diagnosis technique stability of grid-connected converters and ↑ smart control of power electronics in devices, microgrids, and at system levels.

Lithium-Ion Batteries Penguin

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.

EBOOK: Principles and Practice of Marketing Woodhead Publishing

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.

51 Penguin

This book gathers together innovative research and practical findings relating to urban mobility transformation. It is especially intended to provide academicians, researchers, practitioners and decision makers with effective strategies and techniques that can support urban mobility in a sustainable way. The chapters, which report on contributions presented at the 5th Conference on Sustainable Urban Mobility, held virtually on June 17-19, 2020, from Greece, cover the thematic areas of: social networks and traveler behavior; applications of technologies in transportation and big data analytics; transport infrastructure and traffic management; and transportation modeling and impact assessment. Special attention is given to public transport and demand responsive systems, electromobility, micromobility and automated vehicles. The book addresses the challenges of the near future, highlighting the importance of knowledge transfer, and it is intended to foster communication among universities, industries and public administration.

Electric Trucks McFarland

Anyone who has read Gone Girl will love this crime novel. A young woman is beaten to death in the city park. Mia, a veterinarian, lives nearby. One day, her best friend from childhood days, the charming and successful Jay, disappears without a trace. She left a letter to her husband behind, asking him not to pursue her. Mia immediately suspects foul play when she realizes that Jay resembles the dead woman from the park. Where is Jay? Nobody seems to care, except for Mia. Their friends are acting strangely and seem to be hiding something. On her search for Jay, Mia starts to face a nightmare. She becomes entangled in a web of lies, intrigue, hatred and betrayal. Unbridled anger ignites, and nothing is as it seems... What are the friends hiding? A breathtaking psychological thriller about love, desire, envy and hate - and friendship which is no one at all.

Power Electronics and Electric Drives for Traction Applications Springer Science & Business Media

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.

The Greening of the Automotive Industry John Wiley & Sons

From the authors of the leading environmental handbook Green Living, the best of E's nationally syndicated Q&A column, EarthTalk Knowledge of environmental issues and sustainability

is increasingly important as industrialization and climate change continue to wreak havoc on our ecosystems and our psyche. As temperatures rise—and icecaps shrink and storms lash our coastal areas into oblivion—being smart about carbon footprints, waste streams and consumer choices becomes increasingly important for all of us. That ' s where EarthTalk comes in. EarthTalk gathers together the best of readers' questions on the environment and the best ways to live green and answers in a quick and easy guide for the average Joe (or Jane). Searching by subject or looking up questions in the index, readers can learn everything from the difference between wild and farmed salmon to the pros and cons of nuclear power. EarthTalk provides the essential tools and tips to living in harmony with the planet.

The Development and Evaluation of an Optimal Powertrain Control Strategy for a Hybrid Electric Vehicle MDPI

EduGorilla Publication is a trusted name in the education sector, committed to empowering learners with high-quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well-structured content tailored to meet the needs of students across various streams and levels.

The Car Show Springer Nature

Since the beginning of the 2000s, important changes in external environments have affected the corporate governance practices of firms all around the world. The corporate governance structure in each country develops in response to country-specific factors and conditions. Firms are currently engaged in a variety of dynamic business relationships such as business networks, strategic alliances, and conglomerates especially in high technology sectors. Strategy, Structure and Corporate Governance by Nabyla Daidj, proposes to analyze the main trends and drivers of change in corporate governance of several kinds of organizations: - Large conglomerates. The development of large and complex conglomerate organizations have played an important role in the economy in Japan but also in other countries such as Korea with chaebols, which can be defined as closely intertwined industrial groupings. - Inter-firms networks (districts, clusters etc.); and, - 'Recent' forms of inter-firms networks (business ecosystems). The author examines several case studies and shows how shifts in markets and global competition are reconfiguring transactions within these organizations and are impacting corporate governance systems.

Automotive Electricity EduGorilla Publication

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.

EarthTalk John Wiley & Sons

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

Autocar CRC Press

EBOOK: Principles and Practice of Marketing

Modeling, Dynamics, and Control of Electrified Vehicles Penguin UK

Nathan Carter has become Ireland's biggest country music star. He is heralded by many as reviving the country music genre and bringing it into the mainstream. He has sold out venues across the UK and Ireland, has landed his own primetime show, and is loved and respected by legions of fans across Ireland. But how did a lad from Liverpool accomplish all this before the age of 27? In his revealing and inspirational autobiography, Nathan reminisces about his music filled childhood, and growing up in Merseyside with his Liverpool-Irish family. From his first taste of showbiz at the tender age of four, to his success on the north of England club circuit and his subsequent relocation to Donegal, Nathan explores the twists of fate that took him to chart success and to become Ireland's adopted poster boy for country music.

Automotive Handbook Springer Science & Business Media

Lithium-Ion Batteries features an in-depth description of different lithium-ion applications, including important features such as safety and reliability. This title acquaints readers with the numerous and often consumer-oriented applications of this widespread battery type. Lithium-Ion Batteries also explores the concepts of nanostructured materials, as well as the importance of battery management systems. This handbook is an invaluable resource for electrochemical engineers and battery and fuel cell experts everywhere, from research institutions and universities to a worldwide array of professional industries. - Contains all applications of consumer and industrial lithium-ion batteries, including reviews, in a single volume - Features contributions from the world's leading industry and research experts - Presents executive summaries of specific case studies - Covers information on basic research and application approaches

Proceedings of the FISITA 2012 World Automotive Congress SAE International

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

Motor Industry Management Newnes

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!