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KEY=MANUAL - PEREZ JOSEPH

I-MIEV

MITSUBISHI INNOVATIVE ELECTRIC VEHICLE : OWNER'S MANUAL

MITSUBISHI I-MIEV

OWNER'S MANUAL SUPPLEMENT

THE ELECTRIC CAR GUIDE - MITSUBISHI I-MIEV THE ELECTRIC CAR GUIDE - MITSUBISHI I-MIEV

Greenstream Publishing **What is it really like to own and use an electric car? Are they slow and dull, or are they fun and exciting to drive? What about practicality and range? This book describes both the highs and lows of electric car ownership, turns a spotlight on the environmental claims and shows how an electric car can become a convenient and easy to use option.**

THE ELECTRIC CAR GUIDE - 2015 EDITION

The Electric Car Guide - 2015 Edition - is the definitive guide to owning an electric car. Written by an author who has owned an electric car for the past eight years, it explains the benefits and drawbacks of electric car ownership, explores the environmental benefits and demonstrates the true costs associated with owning an electric car.

THE ELECTRIC CAR GUIDE: NISSAN LEAF

Arguably one of the most important cars of this century so far, the Nissan LEAF is one of the most talked about cars in the world. It is the world's best selling electric car, a former World Car of the Year winner and one of the most environmentally friendly cars you can buy today. In this all-new guide, best selling technology author and LEAF owner, Michael Boxwell, explains what you need to know about owning and using a LEAF. He reveals why driving electric is not just good for the environment, but provides a terrific driving experience that is good for your wallet as well. Michael Boxwell has been involved in the electric vehicle industry since 2003 and has owned and driven electric cars since 2006. He is currently on his second Nissan LEAF.

THE BHUTAN ELECTRIC VEHICLE INITIATIVE

SCENARIOS, IMPLICATIONS, AND ECONOMIC IMPACT

World Bank Publications As the country that inspires the world with 'gross national happiness' development philosophy, Bhutan is striving to pursue its economic growth while committing to its core values of inclusive and green development. Even with robust economic growth rates, Bhutan's dependence on imports and hydropower revenues drives the country to search for self-reliant option to fuel the economy while further decarbonizing the economy. Electric vehicle is being explored as one of the key policies to introduce green mobility, reduce fossil fuel imports and put the country firmly on a green growth path. Globally, electric vehicles market and technology are still in the nascent stage but are developing rapidly. The automotive industry has adopted electrification as a pillar of future drive train technology. EV uptake is expected to increase significantly with ongoing improvements in technology and resulting cost decreases in the global market. This report aims to help Bhutan think through various technical and policy issues of introducing electric vehicles in its own context. It analyses a variety of factors that will impact adoption of electric vehicles from technical, market and financial feasibility to consumer awareness and stakeholders' capacity. It also addresses several policy questions which are at the heart of public debate such as affordability of the government to undertake the program, economic costs and benefits, distributional impact, fiscal, and macroeconomic implications. Drawing from vast international experiences, the report examines in great technical details how global cutting-edge technology like electric vehicles could be pursued in the context of developing economies with different socio-economic characteristics and constraints compared to advanced economies. It will help readers better grasp the

technical, financial, economic and social challenges as well as opportunities in initiating electric vehicles program and provide practical recommendations that will be useful for policy makers in designing their own EV initiative.

ELECTRIC VEHICLE TECHNOLOGY EXPLAINED

John Wiley & Sons

SUSTAINABLE ENERGY--WITHOUT THE HOT AIR

Uit Cambridge Limited Provides an overview of the sustainable energy crisis that is threatening the world's natural resources, explaining how energy consumption is estimated and how those numbers have been skewed by various factors and discussing alternate forms of energy that can and should be used.

GREEN GONE WRONG

DISPATCHES FROM THE FRONT LINES OF ECO-CAPITALISM

Verso Books Faced with climate change, many counsel “going green” by buying organic food or a “clean” car. But can we rely on consumerism as a solution to the very problems it has helped cause? Heather Rogers travels from Paraguay to Indonesia, via the Hudson Valley, Detroit and London, to investigate green capitalism, and argues for solutions that are not mere palliatives or distractions, but ways of engaging with how we live and the kind of world we want to live in.

THE HANDBOOK OF LITHIUM-ION BATTERY PACK DESIGN

CHEMISTRY, COMPONENTS, TYPES AND TERMINOLOGY

Elsevier The Handbook of Lithium-Ion Battery Pack Design: Chemistry, Components, Types and Terminology offers to the reader a clear and concise explanation of how Li-ion batteries are designed from the perspective of a manager, sales person, product manager or entry level engineer who is not already an expert in Li-ion battery design. It will offer a layman’s explanation of the history of vehicle electrification, what the various terminology means, and how to do some simple calculations that can be used in determining basic battery sizing, capacity, voltage and energy. By the

end of this book the reader has a solid understanding of all of the terminology around Li-ion batteries and is able to do some simple battery calculations. The book is immensely useful to beginning and experienced engineer alike who are moving into the battery field. Li-ion batteries are one of the most unique systems in automobiles today in that they combine multiple engineering disciplines, yet most engineering programs focus on only a single engineering field. This book provides you with a reference to the history, terminology and design criteria needed to understand the Li-ion battery and to successfully lay out a new battery concept. Whether you are an electrical engineer, a mechanical engineer or a chemist this book helps you better appreciate the inter-relationships between the various battery engineering fields that are required to understand the battery as an Energy Storage System. Offers an easy explanation of battery terminology and enables better understanding of batteries, their components and the market place. Demonstrates simple battery scaling calculations in an easy to understand description of the formulas Describes clearly the various components of a Li-ion battery and their importance Explains the differences between various Li-ion cell types and chemistries and enables the determination which chemistry and cell type is appropriate for which application Outlines the differences between battery types, e.g., power vs energy battery Presents graphically different vehicle configurations: BEV, PHEV, HEV Includes brief history of vehicle electrification and its future

ROAD & TRACK

MANUAL OF GEAR DESIGN

SPUR AND INTERNAL GEARS

Industrial Press These manuals conveniently gather together the necessary information required for solving a majority of gear problems. The first section contains tables and information on calculating gear ratios, as well as tables of factors and involute functions. The second section cover subjects on spur and internal gears, while section three focuses on information pertaining to helical and spiral gears.

HYBRID ELECTRIC VEHICLES

PRINCIPLES AND APPLICATIONS WITH PRACTICAL PERSPECTIVES

John Wiley & Sons The latest developments in the field of hybrid electric vehicles Hybrid Electric Vehicles provides an

introduction to hybrid vehicles, which include purely electric, hybrid electric, hybrid hydraulic, fuel cell vehicles, plug-in hybrid electric, and off-road hybrid vehicular systems. It focuses on the power and propulsion systems for these vehicles, including issues related to power and energy management. Other topics covered include hybrid vs. pure electric, HEV system architecture (including plug-in & charging control and hydraulic), off-road and other industrial utility vehicles, safety and EMC, storage technologies, vehicular power and energy management, diagnostics and prognostics, and electromechanical vibration issues. **Hybrid Electric Vehicles, Second Edition** is a comprehensively updated new edition with four new chapters covering recent advances in hybrid vehicle technology. New areas covered include battery modelling, charger design, and wireless charging. Substantial details have also been included on the architecture of hybrid excavators in the chapter related to special hybrid vehicles. Also included is a chapter providing an overview of hybrid vehicle technology, which offers a perspective on the current debate on sustainability and the environmental impact of hybrid and electric vehicle technology. Completely updated with new chapters Covers recent developments, breakthroughs, and technologies, including new drive topologies Explains HEV fundamentals and applications Offers a holistic perspective on vehicle electrification **Hybrid Electric Vehicles: Principles and Applications with Practical Perspectives, Second Edition** is a great resource for researchers and practitioners in the automotive industry, as well as for graduate students in automotive engineering.

BUILD YOUR OWN ELECTRIC VEHICLE, THIRD EDITION

McGraw Hill Professional **BUILD, CONVERT, OR BUY A STATE-OF-THE-ART ELECTRIC VEHICLE** Thoroughly revised and expanded, **Build Your Own Electric Vehicle, Third Edition**, is your go-to guide for converting an internal combustion engine vehicle to electric or building an EV from the ground up. You'll also find out about the wide variety of EVs available for purchase and how they're being built. This new edition details all the latest breakthroughs, including AC propulsion and regenerative braking systems, intelligent controllers, batteries, and charging technologies. Filled with updated photos, this cutting-edge resource fully describes each component--motor, battery, controller, charger, and chassis--and provides illustrated, step-by-step instructions on how to assemble all the parts. Exclusive web content features current supplier and dealer lists. Custom-built for environmentalists, engineers, students, hobbyists, and mechanics, this hands-on guide puts you in the fast lane toward a cost-effective, reliable green machine. **Build Your Own Electric Vehicle, Third Edition**, covers: Environmental impact and energy savings The best EV for you--purchase trade-offs, conversion trade-offs, and conversion costs Chassis and design Different types of electric motors and controllers Lithium EV batteries Chargers and electrical systems EV builds and conversions Licensing and insuring your

EV Driving and maintenance List of manufacturers and dealers regularly updated on website

THE RUSSIAN MANUAL

COMPRISING A CONDENSED GRAMMAR, EXERCISES WITH ANALYSES, USEFUL DIALOGUES, READING LESSONS, [ETC.].

TECHNOLOGIES AND APPLICATIONS FOR SMART CHARGING OF ELECTRIC AND PLUG-IN HYBRID VEHICLES

Springer This book outlines issues related to massive integration of electric and plug-in hybrid electric vehicles into power grids. Electricity is becoming the preferred energy vector for the next new generation of road vehicles. It is widely acknowledged that road vehicles based on full electric or hybrid drives can mitigate problems related to fossil fuel dependence. This book explains the emerging and understanding of storage systems for electric and plug-in hybrid vehicles. The recharging stations for these types of vehicles might represent a great advantage for the electric grid by facilitating integration of renewable and distributed energy production. This book presents a broad review from analyzing current literature to on-going research projects about the new power technologies related to the various charging architectures for electric and plug-in hybrid vehicles. Specifically focusing on DC fast charging operations, as well as, grid-connected power converters and the full range of energy storage systems. These key components are analyzed for distributed generation and charging system integration into micro-grids. The authors demonstrate that these storage systems represent effective interfaces for the control and management of renewable and sustainable distributed energy resources. New standards and applications are emerging from micro-grid pilot projects around the world and case studies demonstrate the convenience and feasibility of distributed energy management. The material in this unique volume discusses potential avenues for further research toward achieving more reliable, more secure and cleaner energy.

E-MOBILITY IN EUROPE

TRENDS AND GOOD PRACTICE

Springer Focusing on technical, policy and social/societal practices and innovations for electrified transport for personal, public and freight purposes, this book provides a state-of-the-art overview of developments in e-mobility in

Europe and the West Coast of the USA. It serves as a learning base for further implementing and commercially developing this field for the benefit of society, the environment and public health, as well as for economic development and private industry. A fast-growing, interdisciplinary sector, electric mobility links engineering, infrastructure, environment, transport and sustainable development. But despite the relevance of the topic, few publications have ever attempted to document or promote the wide range of electric mobility initiatives and projects taking place today. Addressing this need, this publication consists of case studies, reports on technological developments and examples of successful infrastructure installation in cities, which document current initiatives and serve as an inspiration for others.

ELECTRIC AND HYBRID VEHICLES

TECHNOLOGIES, MODELING AND CONTROL - A MECHATRONIC APPROACH

John Wiley & Sons **An advanced level introductory book covering fundamental aspects, design and dynamics of electric and hybrid electric vehicles** There is significant demand for an understanding of the fundamentals, technologies, and design of electric and hybrid electric vehicles and their components from researchers, engineers, and graduate students. Although there is a good body of work in the literature, there is still a great need for electric and hybrid vehicle teaching materials. **Electric and Hybrid Vehicles: Technologies, Modeling and Control - A Mechatronic Approach** is based on the authors' current research in vehicle systems and will include chapters on vehicle propulsion systems, the fundamentals of vehicle dynamics, EV and HEV technologies, chassis systems, steering control systems, and state, parameter and force estimations. The book is highly illustrated, and examples will be given throughout the book based on real applications and challenges in the automotive industry. Designed to help a new generation of engineers needing to master the principles of and further advances in hybrid vehicle technology Includes examples of real applications and challenges in the automotive industry with problems and solutions Takes a mechatronics approach to the study of electric and hybrid electric vehicles, appealing to mechanical and electrical engineering interests Responds to the increase in demand of universities offering courses in newer electric vehicle technologies

RESEARCH AND DEVELOPMENT MANAGEMENT

TECHNOLOGY JOURNEY THROUGH ANALYSIS, FORECASTING AND DECISION MAKING

Springer This book introduces readers to essential technology assessment and forecasting tools, demonstrating their use on the basis of multiple cases. As organizations in the high-tech industry need to be able to assess emerging technologies, the book presents cases in which formal decision-making models are developed, providing a framework for decision-making in the context of technology acquisition and development. Applications of different technology forecasting tools are also discussed for a range of technologies and sectors, providing a guide to keep R&D organizations abreast of technological trends that affect their business. As such, the book offers a valuable theoretical and practical reference guide for R&D managers responsible for emerging and future technologies.

TRANSPORTATION ENERGY DATA BOOK

POWER CONVERTERS FOR ELECTRIC VEHICLES

CRC Press **Power Converters for Electric Vehicles** gives an overview, topology, design, and simulation of different types of converters used in electric vehicles (EV). It covers a wide range of topics ranging from the fundamentals of EV, Hybrid EV and its stepwise approach, simulation of the proposed converters for real-time applications and corresponding experimental results, performance improvement paradigms, and overall analysis. Drawing upon the need for novel converter topologies, this book provides the complete solution for the power converters for EV applications along with simulation exercises and experimental results. It explains the need for power electronics in the improvement of performance in EV. This book: Presents exclusive information on the power electronics of EV including traction drives. Provides step-by-step procedure for converter design. Discusses various topologies having different isolated and non-isolated converters. Describes control circuit design including renewable energy systems and electrical drives. Includes practical case studies incorporated with simulation and experimental results. **Power Converters for Electric Vehicles** will provide researchers and graduate students in Power Electronics, Electric Drives, Vehicle Engineering a useful resource for stimulating their efforts in this important field of the search for renewable technologies.

ADVANCED ELECTRIC DRIVE VEHICLES

CRC Press **Electrification** is an evolving paradigm shift in the transportation industry toward more efficient, higher

performance, safer, smarter, and more reliable vehicles. There is in fact a clear trend to move from internal combustion engines (ICEs) to more integrated electrified powertrains. Providing a detailed overview of this growing area, **Advanced Electric Drive Vehicles** begins with an introduction to the automotive industry, an explanation of the need for electrification, and a presentation of the fundamentals of conventional vehicles and ICEs. It then proceeds to address the major components of electrified vehicles—i.e., power electronic converters, electric machines, electric motor controllers, and energy storage systems. This comprehensive work: Covers more electric vehicles (MEVs), hybrid electric vehicles (HEVs), plug-in hybrid electric vehicles (PHEVs), range-extended electric vehicles (REEVs), and all-electric vehicles (EVs) including battery electric vehicles (BEVs) and fuel cell vehicles (FCVs) Describes the electrification technologies applied to nonpropulsion loads, such as power steering and air-conditioning systems Discusses hybrid battery/ultra-capacitor energy storage systems, as well as 48-V electrification and belt-driven starter generator systems Considers vehicle-to-grid (V2G) interface and electrical infrastructure issues, energy management, and optimization in advanced electric drive vehicles Contains numerous illustrations, practical examples, case studies, and challenging questions and problems throughout to ensure a solid understanding of key concepts and applications **Advanced Electric Drive Vehicles** makes an ideal textbook for senior-level undergraduate or graduate engineering courses and a user-friendly reference for researchers, engineers, managers, and other professionals interested in transportation electrification.

SMART GRIDS

INFRASTRUCTURE, TECHNOLOGY, AND SOLUTIONS

CRC Press **What exactly is smart grid? Why is it receiving so much attention? What are utilities, vendors, and regulators doing about it? Answering these questions and more, *Smart Grids: Infrastructure, Technology, and Solutions* gives readers a clearer understanding of the drivers and infrastructure of one of the most talked-about topics in the electric utility market—smart grid. This book brings together the knowledge and views of a vast array of experts and leaders in their respective fields. Key Features Describes the impetus for change in the electric utility industry Discusses the business drivers, benefits, and market outlook of the smart grid initiative Examines the technical framework of enabling technologies and smart solutions Identifies the role of technology developments and coordinated standards in smart grid, including various initiatives and organizations helping to drive the smart grid effort Presents both current technologies and forward-looking ideas on new technologies Discusses barriers and critical factors for a successful**

smart grid from a utility, regulatory, and consumer perspective Summarizes recent smart grid initiatives around the world Discusses the outlook of the drivers and technologies for the next-generation smart grid Smart grid is defined not in terms of what it is, but what it achieves and the benefits it brings to the utility, consumer, society, and environment. Exploring the current situation and future challenges, the book provides a global perspective on how the smart grid integrates twenty-first-century technology with the twentieth-century power grid. CRC Press Authors Speak Stuart Borlase speaks about his book. Watch the video

TRENDS AND ISSUES IN GLOBAL TOURISM 2012

Springer Science & Business Media This book offers insights into important trends and future scenarios in the global tourism and travel industry. Besides the general topics (aviation and hospitality industry, destination management, marketing, and distribution management) it analyses current challenges and impacts resulting especially from developments in social media, corporate social responsibility and eco-mobility. Sustainability in the global tourism sector and particularly eco-mobility is one of the top themes to-be and therefore a focus of this book. Among the contributors to the book are well-known notabilities from institutions such as the UNWTO and top executives of various segments of the tourism and travel industry. The articles are based on presentations and panel discussions presented at the world's largest tourism convention, the ITB Berlin Convention.

COGNITIVE PERSPECTIVES ON WORD FORMATION

Walter de Gruyter The series provides a comprehensive forum for publications in linguistics covering the entire range of language, including its variation and variability in space and time, its acquisition, theories on the nature of human language in general, and descriptions of individual languages. The series welcomes publications addressing the state of the art of linguistics as a whole or of specific subfields, and publications that offer challenging new approaches to linguistics. This volume is the first one to illuminate diverse aspects of word formation from cognitive perspectives. Guided by methodological pluralism, the contributions shed light on a variety of issues in word formation theory and on the interfaces between word formation and phraseology, phonology, and inflection. The majority of the studies focuses on individual types of word formation, reframing our understanding of these processes. Overall, the various contributions add to a yet marginal body of research in cognitive word formation and advance our awareness about the benefits of applying cognitive linguistic thoughts for investigating processes of lexical creation.

MOTORING THE FUTURE

VW AND TOYOTA VYING FOR POLE POSITION

Springer The crisis in the auto industry has resulted in a race between Volkswagen, as challenger, and Toyota, as tattered global market leader. Whether it is the German or the Japanese firm that takes pole position, the winner will change the balance of power in the automotive industry and lead the way to the automobiles of the future.

OVERCOMING BARRIERS TO ELECTRIC-VEHICLE DEPLOYMENT

INTERIM REPORT

National Academies Press The electric vehicle offers many promises-increasing U.S. energy security by reducing petroleum dependence, contributing to climate-change initiatives by decreasing greenhouse gas (GHG) emissions, stimulating long-term economic growth through the development of new technologies and industries, and improving public health by improving local air quality. There are, however, substantial technical, social, and economic barriers to widespread adoption of electric vehicles, including vehicle cost, small driving range, long charging times, and the need for a charging infrastructure. In addition, people are unfamiliar with electric vehicles, are uncertain about their costs and benefits, and have diverse needs that current electric vehicles might not meet. Although a person might derive some personal benefits from ownership, the costs of achieving the social benefits, such as reduced GHG emissions, are borne largely by the people who purchase the vehicles. Given the recognized barriers to electric-vehicle adoption, Congress asked the Department of Energy (DOE) to commission a study by the National Academies to address market barriers that are slowing the purchase of electric vehicles and hindering the deployment of supporting infrastructure. As a result of the request, the National Research Council (NRC)-a part of the National Academies-appointed the Committee on Overcoming Barriers to Electric-Vehicle Deployment. This committee documented their findings in two reports-a short interim report focused on near-term options, and a final comprehensive report. *Overcoming Barriers to Electric-Vehicle Deployment* fulfills the request for the short interim report that addresses specifically the following issues: infrastructure needs for electric vehicles, barriers to deploying the infrastructure, and possible roles of the federal government in overcoming the barriers. This report also includes an initial discussion of the pros and cons of the possible roles. This interim report does not address the committee's full statement of task and does not offer any

recommendations because the committee is still in its early stages of data-gathering. The committee will continue to gather and review information and conduct analyses through late spring 2014 and will issue its final report in late summer 2014. **Overcoming Barriers to Electric-Vehicle Deployment** focuses on the light-duty vehicle sector in the United States and restricts its discussion of electric vehicles to plug-in electric vehicles (PEVs), which include battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs). The common feature of these vehicles is that their batteries are charged by being plugged into the electric grid. BEVs differ from PHEVs because they operate solely on electricity stored in a battery (that is, there is no other power source); PHEVs have internal combustion engines that can supplement the electric power train. Although this report considers PEVs generally, the committee recognizes that there are fundamental differences between PHEVs and BEVs.

ELECTRIC VEHICLES

THE BENEFITS AND BARRIERS

BoD - Books on Demand In this book, theoretical basis and design guidelines for electric vehicles have been emphasized chapter by chapter with valuable contribution of many researchers who work on both technical and regulatory sides of the field. Multidisciplinary research results from electrical engineering, chemical engineering and mechanical engineering were examined and merged together to make this book a guide for industry, academia and policy maker.

E-MOBILITY

A NEW ERA IN AUTOMOTIVE TECHNOLOGY

Springer Nature The book provides easy interpretable explanations for the key technologies involved in Electric Vehicles and Hybrid Electric Vehicles. The authors discuss the various electrical machines, drives, and controls used in EV and HEV. The book provides a detailed coverage of Regenerative Braking Systems used in EV and HEV. The book also illustrates the battery technology and battery management systems in EV and HEV. This book is intended for academicians, researchers and industrialists. In addition, this book has the following features Discusses the various Economic and Environmental Impact of Electric and Hybrid Electric Vehicles Discusses the role of Artificial Intelligence in Electric / Hybrid Electric Vehicles Illustrates the concept of Vehicle to Grid Technology and the smart charging station infrastructure and issues involved in the same Elucidates the concept of Internet of Vehicles Presents the latest

research and applications in alternate energy vehicles

ADVANCED HYBRID AND ELECTRIC VEHICLES

SYSTEM OPTIMIZATION AND VEHICLE INTEGRATION

Springer This contributed volume contains the results of the research program “Agreement for Hybrid and Electric Vehicles”, developed in the framework of the Energy Technology Network of the International Energy Agency. The topical focus lies on technology options for the system optimization of hybrid and electric vehicle components and drive train configurations which enhance the energy efficiency of the vehicle. The approach to the topic is genuinely interdisciplinary, covering insights from fields. The target audience primarily comprises researchers and industry experts in the field of automotive engineering, but the book may also be beneficial for graduate students.

ELECTRIC CARS - THE FUTURE IS NOW!

Veloce Publishing Ltd

VEHICLE PROPULSION SYSTEMS

INTRODUCTION TO MODELING AND OPTIMIZATION

Springer Science & Business Media The authors of this text have written a comprehensive introduction to the modeling and optimization problems encountered when designing new propulsion systems for passenger cars. It is intended for persons interested in the analysis and optimization of vehicle propulsion systems. Its focus is on the control-oriented mathematical description of the physical processes and on the model-based optimization of the system structure and of the supervisory control algorithms.

THE GREAT RACE

THE GLOBAL QUEST FOR THE CAR OF THE FUTURE

Simon and Schuster The Great Race recounts the exciting story of a century-long battle among automakers for market share, profit, and technological dominance—and the thrilling race to build the car of the future. The world’s great

manufacturing juggernaut—the \$3 trillion automotive industry—is in the throes of a revolution. Its future will include cars Henry Ford and Karl Benz could scarcely imagine. They will drive themselves, won't consume oil, and will come in radical shapes and sizes. But the path to that future is fraught. The top contenders are two traditional manufacturing giants, the US and Japan, and a newcomer, China. Team America has a powerful and little-known weapon in its arsenal: a small group of technology buffs and regulators from California. The story of why and how these men and women could shape the future—how you move, how you work, how you live on Earth—is an unexpected tale filled with unforgettable characters: a scorned chemistry professor, a South African visionary who went for broke, an ambitious Chinese ex-pat, a quixotic Japanese nuclear engineer, and a string of billion-dollar wagers by governments and corporations. “To explain the scramble for the next-generation auto—and the roles played in that race by governments, auto makers, venture capitalists, environmentalists, and private inventors—comes Levi Tillemann’s *The Great Race*...Mr. Tillemann seems ideally cast to guide us through the big ideas percolating in the world’s far-flung workshops and labs” (*The Wall Street Journal*). His account is incisive and riveting, explaining how America bounced back in this global contest and what it will take to command the industrial future.

CUTTING CARBON, CREATING GROWTH

MAKING SUSTAINABLE LOCAL TRANSPORT HAPPEN

The Stationery Office This White Paper, entitled "Creating growth, cutting carbon: making sustainable local transport happen", sets out the Government's aims in meeting two key objectives: (i) to help create growth in the economy; (ii) tackling climate change by cutting carbon emissions. Action at the local level is seen as delivering gains at the national level. For example, around every three trips made by car are less than 5 miles in length, and it could be argued many such trips could alternatively be cycled, walked or undertaken by public transport. The Government sees the encouragement of sustainable travel choices benefiting the economy, cutting carbon and contributing to road safety and public health. The new Local Sustainable Transport Fund aims to help local authorities to encourage people to travel sustainably. The publication is divided into nine chapters with one annex, and looks at the following areas: local transport - choices and implications; decentralising power - enabling local delivery; enabling sustainable transport choices; active travel; making transport more attractive; managing traffic to reduce carbon and tackle congestion; local transport in society.

THE AMERICAN HOME GUARD

THE STATE MILITIA IN THE TWENTIETH CENTURY

Texas A&M University Press **Highly motivated developers will want this book if they are eager to keep up with the most exciting growth area for Visual Basic development. After a technical overview of the Internet-related capabilities of Visual Basic, the book covers the Internet Control Pack and the creation of ActiveX controls and documents.**

SOLAR ELECTRICITY HANDBOOK

A SIMPLE, PRACTICAL GUIDE TO SOLAR ENERGY : HOW TO DESIGN AND INSTALL PHOTOVOLTAIC SOLAR ELECTRIC SYSTEMS

Explains how solar panels work, how they can be used, and the steps you need to take to successfully design and install a solar electric system from scratch using photovoltaic solar panels. The accompanying website includes solar calculators and tools to simplify your solar electricity installation.

ERGONOMICS AND HUMAN FACTORS FOR A SUSTAINABLE FUTURE

CURRENT RESEARCH AND FUTURE POSSIBILITIES

Springer **This book focuses on different sustainable products and services, such as electrical vehicles, green buildings, and biophilic and biomimetic systems, at multiple hierarchical levels within its chapters. The authors reflect on individual, organisational, governmental, political, and moral considerations of how Human Factor Ergonomics can build a sustainable future. This book is a must-read for anyone concerned with environmental issues and sustainability.**

ALTERNATIVE FUELS AND ADVANCED VEHICLE TECHNOLOGIES FOR IMPROVED ENVIRONMENTAL PERFORMANCE

TOWARDS ZERO CARBON TRANSPORTATION

Woodhead Publishing **Alternative Fuels and Advanced Vehicle Technologies for Improved Environmental Performance: Towards Zero Carbon Transportation, Second Edition** provides a comprehensive view of key developments in advanced fuels and vehicle technologies to improve the energy efficiency and environmental impact of the automotive sector. Sections consider the role of alternative fuels such as electricity, alcohol and hydrogen fuel cells, as well as advanced additives and oils in environmentally sustainable transport. Other topics explored include methods of revising engine and vehicle design to improve environmental performance and fuel economy and developments in electric and hybrid vehicle technologies. This reference will provide professionals, engineers and researchers of alternative fuels with an understanding of the latest clean technologies which will help them to advance the field. Those working in environmental and mechanical engineering will benefit from the detailed analysis of the technologies covered, as will fuel suppliers and energy producers seeking to improve the efficiency, sustainability and accessibility of their work. Provides a fully updated reference with significant technological advances and developments in the sector Presents analyses on the latest advances in electronic systems for emissions control, autonomous systems, artificial intelligence and legislative requirements Includes a strong focus on updated climate change predictions and consequences, helping the reader work towards ambitious 2050 climate change goals for the automotive industry

FEDERAL SIZE REGULATIONS FOR COMMERCIAL MOTOR VEHICLES

CODE OF PRACTICE FOR ELECTRIC VEHICLE CHARGING EQUIPMENT INSTALLATION

Iet Standards **The Code of Practice for Electric Vehicle Charging Equipment Installation, 3rd Edition** has been updated to align with the current requirements of BS 7671. This includes updated guidance on the electrical installation requirements of BS 7671:2018 (Section 722 Electric vehicle charging installations) to be published in July 2018. The Code of Practice provides an overview of electric vehicle charging equipment, considerations needed prior to installation, physical installation requirements, relevant electrical installation requirements of BS 7671:2018 and specific requirements when installing electric vehicle charging equipment in location's such as dwellings, on-street locations, commercial and industrial premises. Also included are useful installation checklists and risk assessment templates. Therefore this publication provided useful guidance for anyone interested in the installation of electric vehicle charging points. This is a practical guide for use by anyone planning to install electric vehicle charging

equipment. It provides specific electrical installation requirements for electrical contractors as well as essential guidance for anyone planning to specify, procure or manage the installation of such equipment.