

HYBRID ELECTRIC

VEHICLE DESIGN AND CONTROL:
Intelligent Omnidirectional Hybrids



YANGSHENG XU
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Electric And Hybrid Electric Car Hardcover

Tom Denton



Electric And Hybrid Electric Car Hardcover:

The Electric Car Michael Hereward Westbrook, 2001 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 *Electric Cars* James Taylor, 2022-02-17 An essential introduction to the surprisingly long history of the electric car from the early pioneers through to the first commercially viable marques such as Tesla After a century in the shadow of the internal combustion engine the electric motor is making a seismic comeback Battery propelled vehicles in fact predate petrol and diesel engines indeed in the Edwardian era electric vehicles could well have become the dominant form of transport While limitations to their range and speed meant that fossil fuelled cars rapidly left them behind since the 1970s there have been several efforts to revive electric cars and with recent carbon emissions commitments offerings such as the Tesla Model 3 and Nissan Leaf have been well received This fully illustrated introduction explains these developments charting the most notable electric cars from the eccentric Amitron and Zagato Zele to the now mainstream models that are set to dominate the market such as the BMW i3 and Renault Zoe

Hybrid and Electric Cars Louise I. Gerdes, 2014-08-08 The Pew Group provides one of the thirteen essays here plainly stating that hybrid and electric cars make the United States more competitive so why don't we see these cars everywhere Readers will explore this issue across several topics relating to these cars including what to do with mileage taxes whether the government should subsidize the cars and why China does not embrace these cars

History of Electric Cars Nigel Burton, 2013-06-30 One hundred years ago electric cars were the most popular automobiles in the world In the late nineteenth century and at the start of the twentieth century they outsold every other type of car And yet within a couple of decades of the start of the twentieth century the electric car had vanished Thousands of battery powered cars disappeared from the streets replaced by the internal combustion engine and their place in the history of the automobile was quietly erased A century later electric cars are making a comeback Fears over pollution and global warming have forced manufacturers to reconsider the electric concept A History of Electric Cars presents for the first time the full story of electric cars and their hybrid cousins It examines how and why electric cars failed the first time and why today's car manufacturers must learn the lessons of the past if they are to avoid repeating previous mistakes all over again The book examines in detail Early vehicles such as the Lohner Porsche petrol electric hybrid of 1901 Key figures in the history of the electric car development such as Henry Ford Sir Clive Sinclair's plans to build a number of electric vehicles designed to sit alongside the Sinclair C5 The return of the electric technology to vehicles as diverse as the NASA Lunar Rover commuting vehicles and supercars Future developments in electric cars For the first time the full story of electric cars and

their hybrids are examined The hidden past of the electric automobile is uncovered and its future developments are discussed Superbly illustrated with 300 colour photographs many of which are rare and original sketch designs Nigel Burton has written and lectured on cars and automotive history for more than twenty years **Electric and Hybrid Vehicles** Tom Denton, Hayley Pells, 2024-01-25 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 IMI and introduces the subject for further education and undergraduate students as well as technicians and workshop owners with sections for drivers who are interested to know more This new edition contains extensively updated content especially on batteries charging and the high voltage pathway and includes all new case studies and new images photos and flow charts throughout 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 diagnostics servicing repair and first responder information The book is particularly suitable for students studying towards IMI Level 1 Award in Hybrid Electric Vehicle Awareness IMI Level 2 Award in Hybrid Electric Vehicle Operation and Maintenance IMI Level 3 Award in Hybrid Electric Vehicle Repair and Replacement IMI Level 4 Award in the Diagnosis Testing and Repair of Electric Hybrid Vehicles and Components IMI accreditation City Guilds C G and all other EV hybrid courses Electric and Hybrid Cars Curtis D. Anderson, Judy Anderson, 2010-03-30 This illustrated history chronicles electric and hybrid cars from the late 19th century to today s fuel cell and plug in automobiles It describes the politics technology marketing strategies and environmental issues that have impacted electric and hybrid cars research and development The important marketing shift from a woman s car to going green is discussed Milestone projects and technologies such as early batteries hydrogen and bio mass fuel cells the upsurge of hybrid vehicles and the various regulations and market forces that have shaped the industry are also covered Hybrid Electric Vehicles and Distributed Renewable Energy Conversion: Control and Vibration Analysis Khalid, Saifullah, Ali, Javed, Yadav, Dharmendra Singh, 2024-12-10 The intersection of hybrid electric vehicles HEVs and distributed renewable energy systems represents a frontier in engineering and environmental innovation As the world moves towards sustainable energy solutions combining renewable resources such as solar and wind with HEVs offers a transformative approach to reducing carbon emissions and enhancing energy efficiency This integration not only improves the performance and sustainability of transportation but also supports decentralized energy generation allowing communities to become more energy resilient The synergy between HEVs and renewable energy systems holds significant promise in driving the global transition towards greener more sustainable infrastructures reducing dependence on fossil fuels and advancing climate goals Hybrid Electric Vehicles and Distributed Renewable Energy Conversion Control and Vibration Analysis explores the

integration of HEVs and distributed renewable energy systems focusing on the control strategies and vibration analysis necessary for optimizing performance It addresses the multifaceted challenges and advancements in harnessing renewable energy sources for HEVs offering a comprehensive exploration of this dynamic field Covering topics such as artificial intelligence AI hybrid power systems and wireless charging this book is an excellent resource for researchers academicians engineers professionals graduate and postgraduate students policymakers and more

Hybrid Electric Vehicles

Chris Mi,M. Abul Masrur,David Wenzhong Gao,2011-05-23 Modern Hybrid Electric Vehicles provides vital guidance to help a new generation of engineers master the principles of and further advance hybrid vehicle technology The authors address purely electric hybrid electric plug in hybrid electric hybrid hydraulic fuel cell and off road hybrid vehicle systems They focus on the power and propulsion systems for these vehicles including issues related to power and energy management They concentrate on material that is not readily available in other hybrid electric vehicle HEV books such as design examples for hybrid vehicles and cover new developments in the field including electronic CVT plug in hybrid and new power converters and controls Covers hybrid vs pure electric HEV system architecture including plug in and hydraulic off road and other industrial utility vehicles non ground vehicle applications like ships locomotives aircrafts system reliability EMC storage technologies vehicular power and energy management diagnostics and prognostics and electromechanical vibration issues Contains core fundamentals and principles of modern hybrid vehicles at component level and system level Provides graduate students and field engineers with a text suitable for classroom teaching or self study

Electric and Plug-in Hybrid Vehicle Networks

Emanuele Crisostomi,Robert Shorten,Sonja Stüdl,Fabian Wirth,2017-10-30 This book explores the behavior of networks of electric and hybrid vehicles The topics that are covered include energy management issues for aggregates of plug in vehicles the design of sharing systems to support electro mobility context awareness in the operation of electric and hybrid vehicles and the role that this plays in a Smart City context and tools to test and design massively large scale networks of such vehicles The book also introduces new and interesting control problems that are becoming prevalent in the EV PHEV s context as well as identifying some open questions A particular focus of the book is on the opportunities afforded by networked actuation possibilities in electric and hybrid vehicles and the role that such actuation may play in air quality and emissions management

Electric and Hybrid Vehicles

Tom Denton,Haley Pells,2024-01-25 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 IMI and introduces the subject for further education and undergraduate students as well as technicians and workshop owners with sections for drivers who are interested to know more This new edition contains extensively updated content especially on batteries charging and the high voltage pathway and includes all new case studies and new images photos and flow charts throughout 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 diagnostics servicing repair and first responder information The book is particularly suitable for students studying towards IMI Level 1 Award in Hybrid Electric Vehicle Awareness IMI Level 2 Award in Hybrid Electric Vehicle Operation and Maintenance IMI Level 3 Award in Hybrid Electric Vehicle Repair and Replacement IMI Level 4 Award in the Diagnosis Testing and Repair of Electric Hybrid Vehicles and Components IMI accreditation City Guilds C G and all other EV hybrid courses

Reinforcement Learning-Enabled Intelligent Energy Management for Hybrid Electric Vehicles Teng Liu,2022-06-01

Powertrain electrification fuel decarbonization and energy diversification are techniques that are spreading all over the world leading to cleaner and more efficient vehicles Hybrid electric vehicles HEVs are considered a promising technology today to address growing air pollution and energy deprivation To realize these gains and still maintain good performance it is critical for HEVs to have sophisticated energy management systems Supervised by such a system HEVs could operate in different modes such as full electric mode and power split mode Hence researching and constructing advanced energy management strategies EMSs is important for HEVs performance There are a few books about rule and optimization based approaches for formulating energy management systems Most of them concern traditional techniques and their efforts focus on searching for optimal control policies offline There is still much room to introduce learning enabled energy management systems founded in artificial intelligence and their real time evaluation and application In this book a series hybrid electric vehicle was considered as the powertrain model to describe and analyze a reinforcement learning RL enabled intelligent energy management system The proposed system can not only integrate predictive road information but also achieve online learning and updating Detailed powertrain modeling predictive algorithms and online updating technology are involved and evaluation and verification of the presented energy management system is conducted and executed **Electric Cars** Nancy Dickmann,2020 The University of Wisconsin features information about hybrid electric cars which use both electricity and gasoline as fuel as part of the Why Files resource Why Files uses news and current events to explore science and the issues it raises The content is associated with specific National Science Education standards and offers links to related sites

Modeling for Hybrid and Electric Vehicles Using Simscape Shuvra Das,2022-06-01 Automobiles have played an important role in the shaping of the human civilization for over a century and continue to play a crucial role today The design construction and performance of automobiles have evolved over the years For many years there has been a strong shift toward electrification of automobiles It started with the by wire systems where more efficient electro mechanical subsystems started replacing purely mechanical devices e g anti lock brakes drive by wire and cruise control Over the last decade driven by a strong push for fuel efficiency pollution reduction and environmental stewardship electric and hybrid electric vehicles have become quite popular In fact almost all the automobile manufacturers have adopted strategies and launched vehicle

models that are electric and or hybrid With this shift in technology employers have growing needs for new talent in areas such as energy storage and battery technology power electronics electric motor drives embedded control systems and integration of multi disciplinary systems To support these needs universities are adjusting their programs to train students in these new areas of expertise For electric and hybrid technology to deliver superior performance and efficiency all sub systems have to work seamlessly and in unison every time and all the time To ensure this level of precision and reliability modeling and simulation play crucial roles during the design and development cycle of electric and hybrid vehicles Simscape a Matlab Simulink toolbox for modeling physical systems is an ideally suited platform for developing and deploying models for systems and sub systems that are critical for hybrid and electric vehicles This text will focus on guiding the reader in the development of models for all critical areas of hybrid and electric vehicles There are numerous texts on electric and hybrid vehicles in the market right now A majority of these texts focus on the relevant technology and the physics and engineering of their operation In contrast this text focuses on the application of some of the theories in developing models of physical systems that are at the core of hybrid and electric vehicles Simscape is the tool of choice for the development of these models Relevant background and appropriate theory are referenced and summarized in the context of model development with significantly more emphasis on the model development procedure and obtaining usable and accurate results

Deep Reinforcement Learning-based Energy Management for Hybrid Electric Vehicles Yeuching Li,Hongwen He,2022-02-14 The urgent need for vehicle electrification and improvement in fuel efficiency has gained increasing attention worldwide Regarding this concern the solution of hybrid vehicle systems has proven its value from academic research and industry applications where energy management plays a key role in taking full advantage of hybrid electric vehicles HEVs There are many well established energy management approaches ranging from rules based strategies to optimization based methods that can provide diverse options to achieve higher fuel economy performance However the research scope for energy management is still expanding with the development of intelligent transportation systems and the improvement in onboard sensing and computing resources Owing to the boom in machine learning especially deep learning and deep reinforcement learning DRL research on learning based energy management strategies EMSs is gradually gaining more momentum They have shown great promise in not only being capable of dealing with big data but also in generalizing previously learned rules to new scenarios without complex manually tuning Focusing on learning based energy management with DRL as the core this book begins with an introduction to the background of DRL in HEV energy management The strengths and limitations of typical DRL based EMSs are identified according to the types of state space and action space in energy management Accordingly value based policy gradient based and hybrid action space oriented energy management methods via DRL are discussed respectively Finally a general online integration scheme for DRL based EMS is described to bridge the gap between strategy learning in the simulator and strategy deployment on the vehicle controller

Modern Electric, Hybrid

Electric, and Fuel Cell Vehicles Mehrdad Ehsani,Yimin Gao,Ali Emadi,2017-12-19 Air pollution global warming and the steady decrease in petroleum resources continue to stimulate interest in the development of safe clean and highly efficient transportation Building on the foundation of the bestselling first edition Modern Electric Hybrid Electric and Fuel Cell Vehicles Fundamentals Theory and Design Second Edition updates and expands its detailed coverage of the vehicle technologies that offer the most promising solutions to these issues affecting the automotive industry Proven as a useful in depth resource and comprehensive reference for modern automotive systems engineers students and researchers this book speaks from the perspective of the overall drive train system and not just its individual components New to the second edition A case study appendix that breaks down the Toyota Prius hybrid system Corrections and updates of the material in the first edition Three new chapters on drive train design methodology and control principles A completely rewritten chapter on Fundamentals of Regenerative Braking Employing sufficient mathematical rigor the authors comprehensively cover vehicle performance characteristics EV and HEV configurations control strategies modeling and simulations for modern vehicles They also cover topics including Drive train architecture analysis and design methodologies Internal Combustion Engine ICE based drive trains Electric propulsion systems Energy storage systems Regenerative braking Fuel cell applications in vehicles Hybrid electric drive train design The first edition of this book gave practicing engineers and students a systematic reference to fully understand the essentials of this new technology This edition introduces newer topics and offers deeper treatments than those included in the first Revised many times over many years it will greatly aid engineers students researchers and other professionals who are working in automotive related industries as well as those in government and academia

Electric and Hybrid Electric Vehicles James D. Halderman,2023 **Electric and Hybrid Vehicles** Tom Denton,2016-04-06 The first book on electric and hybrid vehicles EVs written specifically for automotive students and vehicle owners 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 Full coverage of 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 The first book on electric and hybrid vehicles endorsed by the IMI starts with an introduction to the market covering 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 Case studies are used throughout to illustrate different technologies

Handbook of Clean Energy Systems, 6 Volume Set Jinyue Yan,2015-06-22 The Handbook of Clean Energy Systems brings together an international team of

experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include Volume 1 Renewable Energy Biomass resources and biofuel production Bioenergy Utilization Solar Energy Wind Energy Geothermal Energy Tidal Energy Volume 2 Clean Energy Conversion Technologies Steam Vapor Power Generation Gas Turbines Power Generation Reciprocating Engines Fuel Cells Cogeneration and Polygeneration Volume 3 Mitigation Technologies Carbon Capture Negative Emissions System Carbon Transportation Carbon Storage Emission Mitigation Technologies Efficiency Improvements and Waste Management Waste to Energy Volume 4 Intelligent Energy Systems Future Electricity Markets Diagnostic and Control of Energy Systems New Electric Transmission Systems Smart Grid and Modern Electrical Systems Energy Efficiency of Municipal Energy Systems Energy Efficiency of Industrial Energy Systems Consumer Behaviors Load Control and Management Electric Car and Hybrid Car Energy Efficiency Improvement Volume 5 Energy Storage Thermal Energy Storage Chemical Storage Mechanical Storage Electrochemical Storage Integrated Storage Systems Volume 6 Sustainability of Energy Systems Sustainability Indicators Evaluation Criteria and Reporting Regulation and Policy Finance and Investment Emission Trading Modeling and Analysis of Energy Systems Energy vs Development Low Carbon Economy Energy Efficiencies and Emission Reduction Key features Comprising over 3 500 pages in 6 volumes HCES presents a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems consolidating a wealth of information which is currently scattered across a wide variety of literature sources In addition to renewable energy systems HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal oil and gas energy storage systems mitigation technologies for the reduction of environmental pollutants and the development of intelligent energy systems Environmental social and economic impacts of energy systems are also addressed in depth Published in full colour throughout Fully indexed with cross referencing within and between all six volumes Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields Published in print and online The online version is a single publication i e no updates available for one time purchase or through annual subscription

Hybrid and Electric Cars
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The Electric Vehicle Gijs Mom, 2004-04-26 Winner of the Engineer

Historian Award from the International History and Heritage Committee of the American Society of Mechanical Engineers and the Nicholas Joseph Cugnot Award given by the Society of Automotive Historians Recent attention to hybrid cars that run on both gasoline and electric batteries has made the electric car an apparent alternative to the internal combustion engine and its attendant environmental costs and geopolitical implications Few people realize that the electric car neither a recent invention nor a historical curiosity has a story as old as that of the gasoline powered automobile and that at one time many in the nascent automobile industry believed battery powered engines would become the dominant technology In both Europe and America electric cars and trucks succeeded in meeting the needs of a wide range of consumers Before World War II as many as 30 000 electric cars and more than 10 000 electric trucks plied American roads European cities were busy with electrically propelled fire engines taxis delivery vans buses heavy trucks and private cars Even so throughout the century long history of electric propulsion the widespread conviction it was an inferior technology remained stubbornly in place an assumption mirrored in popular and scholarly memory In *The Electric Vehicle* Gijs Mom challenges this view arguing that at the beginning of the automobile age neither the internal combustion engine nor the battery powered vehicle enjoyed a clear advantage He explores the technology and marketing consumer ratio faction relationship over four generations of electric vehicle design with separate chapters on privately owned passenger cars and commercial vehicles Mom makes comparisons among European countries and between Europe and America He finds that the electric vehicle offered many advantages among them greater reliability and control less noise and pollution He also argues that a nexus of factors cultural underpowered and less rugged electric cars seemed feminine at a time when most car buyers were men structural the shortcomings of battery technology at the time and systemic the infrastructural problems of changing large numbers of batteries ultimately gave an edge to the internal combustion engine 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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