

# ELECTRIC AND HYBRID VEHICLES

**Technologies, Modeling and Control:  
A Mechatronic Approach**



**Amir Khajepour | Saber Fallah | Avesta Goodarzi**

**WILEY**

# Electric And Hybrid Vehicles Technologies Modeling And Control A Mechatronic Approach

**Ashok Vaidya**



## **Electric And Hybrid Vehicles Technologies Modeling And Control A Mechatronic Approach:**

*Electric and Hybrid Vehicles* Amir Khajepour, M. Saber Fallah, Avesta Goodarzi, 2014-03-05 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

**Electric Vehicle Technology** Dr. R. A. Kapgate, Amit Joshi, Dr. Pradeep Ammasaikutti, Dr. I. D. Soubache ,2025-09-27 *Electric Vehicle EV Technology* focuses on the design development and operation of vehicles powered primarily by electric energy instead of conventional fossil fuels It integrates knowledge from electrical engineering power electronics battery technology and control systems to enable efficient sustainable and environmentally friendly transportation The subject covers key areas such as battery management systems electric motors charging infrastructure regenerative braking and vehicle to grid V2G technologies It also explores trends in energy storage renewable energy integration and the environmental impact of EV adoption EV technology plays a critical role in reducing carbon emissions and advancing the future of sustainable mobility

**E-Mobility** M. Kathiresh, G. R. Kanagachidambaresan, Sheldon S. Williamson, 2021-12-01 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

**Exploring Alternative Energy**

**Sources** Ashok Vaidya,2025-02-20 Exploring Alternative Energy Sources is a comprehensive guide to understanding and embracing the vast array of alternative energy sources that hold the key to a greener and more sustainable future We explore the diverse landscape of alternative energy providing in depth insights into renewable resources cutting edge technologies and their transformative power From the sun s rays to the gentle breeze from the depths of the oceans to the heart of the Earth we delve into the promising realms of clean and efficient energy Key Features Comprehensive Coverage Solar power wind energy hydropower geothermal systems and more Emerging Technologies Spotlighting the latest advancements and breakthroughs in alternative energy Real World Applications Successful integration of alternative energy sources in diverse settings Environmental Impacts Discussing the environmental benefits of alternative energy sources Navigating the Transition Addressing the challenges and opportunities of transitioning from conventional to alternative energy This book is ideal for students educators professionals policymakers and anyone curious about the technologies shaping the future of energy      *Practice and Innovations in Sustainable Transport* Tariq Muneer,Mehreen Saleem Gul,Eulalia Jadraque Gago,2020-05-28 The book continues with an experimental analysis conducted to obtain accurate and complete information about electric vehicles in different traffic situations and road conditions For the experimental analysis in this study three different electric vehicles from the Edinburgh College leasing program were equipped and tracked to obtain over 50 GPS and energy consumption data for short distance journeys in the Edinburgh area and long range tests between Edinburgh and Bristol In the following section an adaptive and robust square root cubature Kalman filter based on variational Bayesian approximation and Huber s M estimation is proposed to accurately estimate state of charge SOC which is vital for safe operation and efficient management of lithium ion batteries A coupled inductor DC DC converter with a high voltage gain is proposed in the following section to match the voltage of a fuel cell stack to a DC link bus Finally the book presents a review of the different approaches that have been proposed by various authors to mitigate the impact of electric buses and electric taxis on the future smart grid      **Automotive Systems** G.K. Awari,V.S. Kumbhar,R.B. Tirpude,2021-01-26 This book introduces the principles and practices in automotive systems including modern automotive systems that incorporate the latest trends in the automobile industry The fifteen chapters present new and innovative methods to master the complexities of the vehicle of the future Topics like vehicle classification structure and layouts engines transmissions braking suspension and steering are illustrated with modern concepts such as battery electric hybrid electric and fuel cell vehicles and vehicle maintenance practices Each chapter is supported with examples illustrative figures multiple choice questions and review questions Aimed at senior undergraduate and graduate students in automotive automobile engineering mechanical engineering electronics engineering this book covers the following Construction and working details of all modern as well as fundamental automotive systems Complexities of operation and assembly of various parts of automotive systems in a simplified manner Handling of automotive systems and integration of various components for smooth

functioning of the vehicle Modern topics such as battery electric hybrid electric and fuel cell vehicles Illustrative examples figures multiple choice questions and review questions at the end of each chapter

**The Palgrave Encyclopedia of Urban and Regional Futures** Robert C. Brears, 2023-01-13 While urban settlements are the drivers of the global economy and centres of learning culture and innovation and nations rely on competitive dynamic regions for their economic social and environmental objectives urban centres and regions face a myriad of challenges that impact the ways in which people live and work create wealth and interact and connect with places Rapid urbanisation is resulting in urban sprawl rising emissions urban poverty and high unemployment rates housing affordability issues lack of urban investment low urban financial and governance capacities rising inequality and urban crimes environmental degradation increasing vulnerability to natural disasters and so forth At the regional level low employment low wage growth scarce financial resources climate change waste and pollution and rising urban peri urban competition etc are impacting the ability of regions to meet socio economic development goals while protecting biodiversity The response to these challenges has typically been the application of inadequate or piecemeal solutions often as a result of fragmented decision making and competing priorities with numerous economic environmental and social consequences In response there is a growing movement towards viewing cities and regions as complex and sociotechnical in nature with people and communities interacting with one another and with objects such as roads buildings transport links etc within a range of urban and regional settings or contexts This comprehensive MRW will provide readers with expert interdisciplinary knowledge on how urban centres and regions in locations of varying climates lifestyles income levels and stages development are creating synergies and reducing trade offs in the development of resilient resource efficient environmentally friendly liveable socially equitable integrated and technology enabled centres and regions

**Enabling Technologies for Simulation Science IX** Dawn A. Trevisani, Alex F. Sisti, 2005 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

**Dynamic Modeling and Simulation of a Hybrid Electric Vehicle System** Hongjie Wu, 2006 *Annual Index/abstracts of SAE Technical Papers*, 2005

[Smart Electric and Hybrid Vehicles](#) Mohd Tariq, Arif I. Sarwat, 2024-11-21 Thorough reference on technologies designs and strategies for electric and hybrid electric vehicles featuring contributions from international experts Designed for readers who need to review different types of electric and hybrid vehicle designs and strategies in a single book Smart Electric and Hybrid Vehicles Advancements in Materials Design Technologies and Modeling provides a broad overview of the field with additional resources to explore individual topics in greater depth Abstracts case studies references to key data and relevant numerical simulations are included throughout the text to aid in reader comprehension This book introduces the global landscape of hybrid and electric vehicles covering the available technologies

from both a mechanical and electrical engineering perspective presenting mathematical aspects of modeling and analysis and surveying emerging trends and economic impacts It also explains all fundamentals regulations policies perceptions and market competition aspects of intelligent electric vehicles as well as how smart electric and hybrid vehicles can be utilized to reduce harmful emissions and reliance on fossil fuels over the lifecycle of a vehicle Edited by a team of highly qualified academics with contributions by an array of international experts Smart Electric and Hybrid Vehicles Advancements in Materials Design Technologies and Modeling includes information on Electric machine and inverter designs maximum speed considerations component cooling power density and material performance Battery systems fuel cells plug in vehicles mechanical drives and storage systems and the role of power electronics tools The impact of trends and technologies like AI machine vision and digital twins as well as related cyber security considerations Optimization of manufacturing waste charging stations sensing control road trajectory prediction and navigation systems Electrical interfaces to protect against electric shock and cost effectiveness compared to gasoline powered vehicles Smart Electric and Hybrid Vehicles Advancements in Materials Design Technologies and Modeling is an essential reference on the subject for mechanical engineers industrial engineers and academic researchers working in the automotive sector It is also an ideal learning resource for post graduate students in the automotive field

**Modeling for Hybrid and Electric Vehicles Using Simscape** Shuvra Das,2021-05-17 Simscape a Matlab Simulink toolbox for modeling physical systems is the ideal platform for developing and deploying models for hybrid and electric vehicle systems and sub systems This book is step by step guide through the process of developing precise and accurate models for all critical areas of hybrid and electric vehicles 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 The majority of books currently on the market discuss relevant technologies and the physics and engineering of hybrid and electric vehicles This book is unique by focusing on developing models of physical systems at the core of these vehicles using the tool of choice Simscape 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 Computer & Control Abstracts ,1996

**Modeling, Dynamics, and Control of Electrified Vehicles** Haiping Du,Dongpu Cao,Hui Zhang,2017-10-19 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     Annual Index/abstracts of SAE Technical Papers 2004 ,2005     Smart Electric and Hybrid Vehicles Ajay Kumar,D. K. Rajak,Parveen Kumar,Sarita Rathee,2024-08-14 In this book recent developments the future outlook and advanced and analytical modeling techniques of smart electric and hybrid vehicles are explained with examples backed by experimental and numerical data It also discusses the integration of newer developments like digital twin artificial intelligence nature inspired algorithms Internet of Things and the role of Industry 4 0 in advancements in vehicle engineering It compiles overall aspects of advancements in smart electric and hybrid vehicles by bringing the latest research and development by comprehensive range of mathematical numerical and simulation modeling and management techniques to strengthen the engineering science and technological developments for the future Features This book focuses on contemporary aspects of smart electric and hybrid vehicles techniques for new means and models for green environment Discusses the role of artificial intelligence machine learning and machine vision tools in smart electric and hybrid vehicles Presents design and analysis of charging stations and their sustainability roadmap for smart electric vehicles Highlights the cyber and functional security of intelligent and hybrid vehicles Explains diagnostics prognostics reliability and durability issues in smart electric and hybrid vehicles Covers the Internet of Things based battery and charging management approach and effect of voltage drop in charging capacity of smart electric vehicles It is primarily written for senior undergraduates graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer engineering and automotive engineering

*Intelligent Control of Connected Plug-in Hybrid Electric Vehicles* Amir Taghavipour,Mahyar Vajedi,Nasser L. Azad,2018-09-26 Intelligent Control of Connected Plug in Hybrid Electric Vehicles presents the development of real time intelligent control systems for plug in hybrid electric vehicles which involves control oriented modelling controller design and performance evaluation The controllers outlined in the book take advantage of advances in vehicle communications technologies such as global positioning systems intelligent transportation systems geographic information systems and other on board sensors in order to provide look ahead trip data The book contains simple and efficient models and fast optimization algorithms for the devised controllers to address the challenge of real time implementation in the design of complex control systems Using the look ahead trip information the authors of the book propose intelligent optimal model based control systems to minimize the total energy cost for both grid derived electricity and fuel The multilayer intelligent control system proposed consists of trip planning an ecological cruise controller and a route based energy management system An algorithm that is designed to take advantage of previewed trip information to optimize battery depletion profiles is presented in the

book Different control strategies are compared and ways in which connecting vehicles via vehicle to vehicle communication can improve system performance are detailed Intelligent Control of Connected Plug in Hybrid Electric Vehicles is a useful source of information for postgraduate students and researchers in academic institutions participating in automotive research activities Engineers and designers working in research and development for automotive companies will also find this book of interest Advances in Industrial Control reports and encourages the transfer of technology in control engineering The rapid development of control technology has an impact on all areas of the control discipline The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control     Japanese Technical Abstracts ,1988     Japanese Technical Periodical Index ,1987     *Hybrid Electric Vehicle System Modeling and Control* Wei Liu,2017 Intended to contribute to a better understanding of hybrid electric vehicle systems this thorough reference presents all the major aspects of hybrid vehicle modeling control simulation performance analysis and preliminary design



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### Electric And Hybrid Vehicles Technologies Modeling And Control A Mechatronic Approach Introduction

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