



ELECTRIC AND HYBRID VEHICLES

Design Fundamentals

THIRD EDITION

Iqbal Husain



CRC Press
Taylor & Francis Group

Electric And Hybrid Vehicles Design Fundamentals

Mark Steyvers



Electric And Hybrid Vehicles Design Fundamentals:

Electric and Hybrid Vehicles Iqbal Husain, 2021-02-22 A thoroughly revised third edition of this widely praised bestselling textbook presents a comprehensive systems level perspective of electric and hybrid vehicles with emphasis on technical aspects mathematical relationships and basic design guidelines The emerging technologies of electric vehicles require the dedication of current and future engineers so the target audience for the book is the young professionals and students in engineering eager to learn about the area The book is concise and clear its mathematics are kept to a necessary minimum and it contains a well balanced set of contents of the complex technology Engineers of multiple disciplines can either get a broader overview or explore in depth a particular aspect of electric or hybrid vehicles Additions in the third edition include simulation based design analysis of electric and hybrid vehicles and their powertrain components particularly that of traction inverters electric machines and motor drives The technology trends to incorporate wide bandgap power electronics and reduced rare earth permanent magnet electric machines in the powertrain components have been highlighted Charging stations are a critical component for the electric vehicle infrastructure and hence a chapter on vehicle interactions with the power grid has been added Autonomous driving is another emerging technology and a chapter is included describing the autonomous driving system architecture and the hardware and software needs for such systems The platform has been set in this book for system level simulations to develop models using various softwares used in academia and industry such as MATLAB Simulink PLECS PSIM Motor CAD and Altair Flux Examples and simulation results are provided in this edition using these software tools The third edition is a timely revision and contribution to the field of electric vehicles that has reached recently notable markets in a more and more environmentally sensitive world

Electric and Hybrid Vehicles Iqbal Husain, 2011-06-27 Thoroughly updated to encompass the significant technological advances since the publication of the first edition Electric and Hybrid Vehicles Design Fundamentals Second Edition presents the design fundamentals component sizing and systems interactions of alternative vehicles This new edition of a widely praised bestselling textbook maintains the comprehensive systems level perspective of electric and hybrid vehicles while covering the hybrid architectures and components of the vehicle in much greater detail The author emphasizes technical details mathematical relationships and design guidelines throughout the text New to the Second Edition New chapters on sizing and design guidelines for various hybrid architectures control strategies for hybrid vehicles powertrain component cooling systems and in vehicle communication methods New sections on modeling of energy storage components tire road force mechanics compressed air storage DC DC converters emission control systems electromechanical brakes and vehicle fuel economy Reorganization of power electronics electric machines and motor drives sections Enhanced sections on mechanical components that now include more technical descriptions and example problems An emphasis on the integration of mechanical and electrical components taking into account the interdisciplinary nature of automotive engineering As an advisor to the University of

Akron's team in the Challenge X Crossover to Sustainable Mobility Dr. Husain knows first hand how to teach students both the fundamentals and cutting edge technologies of the next generation of automobiles This text shows students how electrical and mechanical engineers must work together to complete an alternative vehicle system It empowers them to carry on state of the art research and development in automotive engineering in order to meet today's needs of clean efficient and sustainable vehicles

Electric and Hybrid Vehicles Taylor & Francis Group,2021-02-22

Electric and Hybrid Vehicles Iqbal Husain,2003-03-12 With advances driven by pressure from governments environmental activists and its associated industries the subject of electric and hybrid vehicles is becoming increasingly important Trends clearly suggest that we must educate the engineers of today and tomorrow in the technical details of these vehicles While there are many books that provide narrative descriptions of electric and hybrid vehicle components none cover the technical aspects from a mathematically derived design point of view and none serve well as a textbook **Electric and Hybrid Vehicles Design Fundamentals** presents a comprehensive systems level perspective of these vehicles that strikes an outstanding balance between technical details design equations numerical examples and case studies Starting with some historic background the author describes the system components the laws of physics governing vehicle motion the mathematical relationships within and between the components energy sources and designing components to meet the complete vehicle specifications As this text illustrates the electric vehicle is an excellent example of electro mechanical and electro chemical systems one that is technically challenging as well as highly motivating to engineering students The material presented is designed to be covered comfortably in a one semester course Its multidisciplinary nature and systems approach makes **Electric and Hybrid Vehicles Design Fundamentals** ideal for teaching electrical mechanical and chemical engineers all in one course

Electric and Hybrid Vehicles: Design Fundamentals Dr. Viswaprakash Babu,Saidulu Valampatla,Banothu Raju,Dr. Debabrata Das,2025-02-14 **Electric and Hybrid Vehicles Design Fundamentals** introduction to the principles design considerations and engineering aspects of electric and hybrid vehicles Key topics such as powertrain architectures energy storage systems motor technologies and control strategies the offers insights into modern advancements and challenges in sustainable transportation It efficiency optimization environmental impact and future trends in vehicle electrification Designed for students researchers and engineers this serves as a foundational resource for understanding the evolving landscape of electric and hybrid vehicle technologies

Solutions Manual for Electric and Hybrid Vehicles Design Fundamentals Husain Iqbal,2003-08

Electric and Hybrid Vehicles : Design Fundamentals Dr. Viswaprakash Babu, Saidulu Valampatla, Banothu Raju, Dr. Debabrata Das,2025-04-12 **Electric and Hybrid Vehicles Design Fundamentals** offers a comprehensive introduction to the principles and engineering of electric and hybrid vehicles It covers powertrains energy storage control systems and design strategies making it ideal for students and professionals seeking foundational knowledge in sustainable automotive technologies and vehicle electrification

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 **Modern Electric, Hybrid Electric, and Fuel Cell Vehicles** Mehrdad Ehsani,Yimin Gao,Sebastien E. Gay,Ali Emadi,2004-12-20 Air quality is deteriorating the globe is warming and petroleum resources are decreasing The most promising solutions for the future involve the development of effective and efficient drive train technologies This comprehensive volume meets this challenge and opportunity by integrating the wealth of disparate information found in scattered pape 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 **Hybrid Electric Vehicles** Chris Mi,M. Abul Masrur,David Wenzhong Gao,2011-07-05 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

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

AUTOMOBILE ENGINEERING: A TEXT BOOK FOR B.TECH AND DIPLOMA ENGINEERING Intezar Mahdi,2025-09-20 Automobile Engineering is a comprehensive guide designed to equip students professionals and enthusiasts with a solid understanding of the principles design and functioning of modern automobiles Covering both fundamental concepts and advanced technologies this book serves as a valuable resource for learners at various stages of their academic or professional journey The text begins with the basics of vehicle layout engine types and

power transmission systems progressing into detailed discussions on automotive components such as the engine gearbox brakes suspension steering and electrical systems It explains the science behind internal combustion engines alternative powertrains and emerging trends like electric vehicles and hybrid technology Special emphasis is given to maintenance practices safety systems emission control and environmental considerations helping readers understand the engineering solutions required for efficient safe and sustainable mobility The book also includes real world case studies diagrams and simplified explanations to make complex topics accessible Aligned with current industry standards and academic curricula this book integrates theoretical knowledge with practical insights It is ideal for diploma and degree students in mechanical and automobile engineering as well as practicing engineers looking to update their knowledge By blending technical accuracy with clarity Automobile Engineering ensures readers not only grasp how vehicles work but also develop the analytical skills to innovate and solve problems in the automotive field

The Ultimate Guide to the Top 100 Engineering Books Navneet Singh, Introduction Engineering is the backbone of modern civilization shaping the way we build design and innovate The best engineering books provide technical knowledge problem solving strategies and real world applications across multiple disciplines This book highlights 100 must read engineering books offering summaries author insights and why each book is influential Whether you re a student professional engineer or a tech enthusiast this guide will help you explore the most essential reads in engineering history

Lightweight Electric/Hybrid Vehicle Design John Fenton,Ron Hodgkinson,2001-07-04 Lightweight Electric Hybrid Vehicle Design covers the particular automotive design approach required for hybrid electrical drive vehicles There is currently huge investment world wide in electric vehicle propulsion driven by concern for pollution control and depleting oil resources The radically different design demands of these new vehicles requires a completely new approach that is covered comprehensively in this book The book explores the rather dramatic departures in structural configuration necessary for purpose designed electric vehicle including weight removal in the mechanical systems It also provides a comprehensive review of the design process in the electric hybrid drive and energy storage systems Ideal for automotive engineering students and professionals Lightweight Electric Hybrid Vehicle Design provides a complete introduction to this important new sector of the industry Comprehensive coverage of all design aspects of electric hybrid cars in a single volume Packed with case studies and applications In depth treatment written in a text book style rather than a theoretical specialist text style

The 30th SIAR International Congress of Automotive and Transport Engineering Ilie Dumitru,Dinu Covaciu,Laurențiu Racila,Adrian Rosca,2019-10-15 This proceedings book includes papers that cover the latest developments in automotive vehicles and environment advanced transport systems and road traffic heavy and special vehicles new materials manufacturing technologies and logistics and advanced engineering methods Authors of the papers selected for this book are experts from research industry and universities coming from different countries The overall objectives of the presentations are to respond to the major challenges faced by the automotive

industry and to propose potential solutions to problems related to automotive technology transportation and environment and road safety The congress is organized by SIAR Society of Automotive Engineers from Romania in cooperation with SAE International The purpose is to gather members from academia industry and government and present their possibilities for investigations and research in order to establish new future collaborations in the automotive engineering and transport domain This proceedings book is just a part of the outcomes of the congress The results presented in this proceedings book benefit researchers from academia and research institutes industry specialists Ph D students and students in Automotive and Transport Engineering programs

Intelligent Computing Systems and Applications Sivaji Bandyopadhyay,Valentina Emilia Balas,Saroj Kumar Biswas,Anish Kumar Saha,Dalton Meitei Thounaojam,2024-09-19 The book includes peer reviewed papers presented at the 2nd International Conference on Intelligent Computing Systems and Applications ICICSA 2023 The book discusses the most recent advances in artificial intelligence machine learning data science natural language processing computer vision image processing embedded systems robotics IoT computer networking and communications optimization security and cryptography among other topics It also discusses several application areas and modeling methodologies in many fields This book will be useful for researchers and academics working in relevant fields

Advanced Battery Management System for Electric Vehicles Shichun Yang,Xinhua Liu,Shen Li,Cheng Zhang,2022-09-19 The battery management system BMS optimizes the efficiency of batteries under allowable conditions and prevents serious failure modes This book focuses on critical BMS techniques such as battery modeling estimation methods for state of charge state of power and state of health battery charging strategies active and passive balancing methods and thermal management strategies during the entire lifecycle It also introduces functional safety and security related design for BMS and discusses potential future technologies like digital twin technology

Neural Information Processing Derong Liu,Shengli Xie,Yuanqing Li,Dongbin Zhao,El-Sayed M. El-Alfy,2017-11-07 The six volume set LNCS 10634 LNCS 10635 LNCS 10636 LNCS 10637 LNCS 10638 and LNCS 10639 constitutes the proceedings of the 24rd International Conference on Neural Information Processing ICONIP 2017 held in Guangzhou China in November 2017 The 563 full papers presented were carefully reviewed and selected from 856 submissions The 6 volumes are organized in topical sections on Machine Learning Reinforcement Learning Big Data Analysis Deep Learning Brain Computer Interface Computational Finance Computer Vision Neurodynamics Sensory Perception and Decision Making Computational Intelligence Neural Data Analysis Biomedical Engineering Emotion and Bayesian Networks Data Mining Time Series Analysis Social Networks Bioinformatics Information Security and Social Cognition Robotics and Control Pattern Recognition Neuromorphic Hardware and Speech Processing

Power Electronics for Electric Vehicles and Energy Storage Dharavath Kishan,Ramani Kannan,B Dastagiri Reddy,Prajof Prabhakaran,2023-05-16 This text will help readers to gain knowledge about designing power electronic converters and their control for electric vehicles It discusses the ways in which power from electric vehicle batteries is transferred to an electric

motor the technology used for charging electric vehicle batteries and energy storage The text covers case studies and real life examples related to electric vehicles The book Discusses the latest advances and developments in the field of electric vehicles Examines the challenges associated with the integration of renewable energy sources with electric vehicles Highlights basic understanding of the charging infrastructure for electric vehicles Covers concepts including the reliability of power converters in electric vehicles and battery management systems This book discusses the challenges emerging technologies and recent development of power electronics for electric vehicles It will serve as an ideal reference text for graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering environmental engineering automotive engineering and computer science

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