

Electric And Hybrid Vehicles Design Fundamentals Second Edition

Hybrid Electric Vehicles Chris Mi 2017-09-11 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.

Hybrid Electric Vehicles Chris Mi 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 Hybrid Vehicles: Design Fundamentals Dr. Viswaprakash Babu 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.

IEEE Circuits & Devices 2005

Hybrid Distribution Trucks Garrett Anderson 2011

Energy Efficiency Improvement of Geotechnical Systems Genadiy Pivnyak 2013-11-19 This book covers innovative technologies and approaches for improvement of technical and economic parameters of functional geotechnical systems. The focus is on mathematical modelling of objects and processes, as well as the development of techniques and their control algorithms. The book comprises schemata of practical tasks solving related to min

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 automotives. 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.

Energy Systems Engineering: Evaluation and Implementation Francis Vanek 2008-05-19 A Unique Systems Approach to Energy Engineering, Covering Carbon-Based, Nuclear, and Renewable Sources! An essential reference for all engineers and students working with energy systems, *Energy Systems Engineering* presents a systems approach to future energy needs, covering carbon-based, nuclear, and renewable energy sources. This unique guide explores the latest technology within each energy systems area, the benefits and liabilities of each, the challenges posed by changing energy supplies, the negative impacts from energy consumption, especially CO2 emissions, and the ways in which a portfolio of new technologies can address these problems. Filled with over 200 detailed illustrations and tables, the book examines short-, medium-, and long-term energy options for the remainder of the twenty-first century. For each energy system, the authors provide equations and problems to help practitioners quantify the performance of the technology and better understand its potential. *Energy Systems Engineering* features: A valuable systems approach to energy engineering Coverage of all major energy topics from climate change to wind power Both U.S. and global energy perspectives, with international comparisons Emphasis on CO2 issues and abatement, including carbon sequestration A wealth of equations and problems for each area of energy technology Numerous tables and graphs in PowerPoint format for easy presentation An extensive online ancillary package for instructors provides an instructor's manual, solution files, course syllabus, Matlab scripts, and teaching PowerPoint files. Inside This Cutting-Edge Guide to the Technology of Energy Systems: Systems Engineering and Economic Analysis Tools • Climate Change • Fossil Fuels, Relative CO2 Emissions, and Modeling of Consumption and Remaining Reserves • Fossil Fuel Combustion Technologies • Carbon Sequestration • Nuclear Energy • The Solar Energy Resource • Solar Technology • Wind Energy • Energy Technologies for Transportation • Systems Issues for Transportation Energy • Other Emerging Renewable Energy Technologies

American Book Publishing Record 2007

Electric and Hybrid Vehicles Amir Khajepour 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 Vehicles Seref Soylu 2011-09-12 In this book, modeling and simulation of electric vehicles and their components have been emphasized chapter by chapter with valuable contribution of many researchers who work on both technical and regulatory sides of the field. Mathematical models for electrical vehicles and their components were introduced and merged together to make this book a guide for industry, academia and policy makers.

Modern Electric, Hybrid Electric, and Fuel Cell Vehicles Mehrdad Ehsani 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

Journal of the Air & Waste Management Association 2006-07

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** ideal for teaching electrical, mechanical, and chemical engineers all in one course.

E-Mobility M. Kathiresh 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

Energy Systems Engineering: Evaluation and Implementation, Second Edition Francis Vanek 2012-04-04

"Fully updated to cover the latest energy systems and technologies, this new edition offers a balanced analytical approach to assessing options and making decisions about energy systems, while emphasizing a portfolio approach in which a range of energy options are employed rather than one technology"--Provided

by publisher.

Advanced Electric Drive Vehicles Ali Emadi 2014-10-02 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.

Control Applications of Vehicle Dynamics Jingsheng Yu 2021-12-24 This book presents essential knowledge of car vehicle dynamics and control theory with NI LabVIEW software product application, resulting in a practical yet highly technical guide for designing advanced vehicle dynamics and vehicle system controllers. Presenting a clear overview of fundamental vehicle dynamics and vehicle system mathematical models, the book covers linear and non-linear design of model based controls such as wheel slip control, vehicle speed control, path following control, vehicle stability and rollover control, stabilization of vehicle-trailer system. Specific applications to autonomous vehicles are described among the methods. It details the practical applications of Kalman-Bucy filtering and the observer design for sensor signal estimation, alongside lateral vehicle dynamics and vehicle rollover dynamics. The book also discusses high level controllers, alongside a clear explanation of basic control principles for regenerative braking in both electric and hybrid vehicles, and wheel torque vectoring systems. Concrete LabVIEW simulation examples of how the models and controls are used in representative applications, along with software algorithms and LabVIEW block diagrams are illustrated. It will be of interest to engineering students, automotive engineering students and automotive engineers and researchers.

Modern Electric, Hybrid Electric, and Fuel Cell Vehicles Mehrdad Ehsani 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.

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

Electric And Hybrid Vehicles Design Fundamentals Second Edition

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