



IET Power and Energy Series 45

Propulsion Systems for Hybrid Vehicles

John M. Miller

Propulsion Systems For Hybrid Vehicles

Dobri Cundev



Propulsion Systems For Hybrid Vehicles:

Propulsion Systems for Hybrid Vehicles John M. Miller, 2004 The automotive industry is waking up to the fact that hybrid electric vehicles could provide an answer to the ever increasing need for lower polluting and more fuel efficient forms of personal transport This is the first book to give comprehensive coverage of all aspects of the hybrid vehicle design from its power plant and energy storage systems to the supporting chassis subsystems necessary for realising hybrid modes of operation Key topics covered include hybrid propulsion system architectures propulsion system sizing electric traction system sizing and design loss mechanisms system simulation and vehicle certification The book is suitable for practising engineers and managers involved in all aspects of hybrid vehicle development modelling and simulation and testing It will also be of interest to postgraduate students in the field

Propulsion Systems for Hybrid Vehicles John M. Miller, 2008 Offering in depth coverage of hybrid propulsion topics energy storage systems and modelling and supporting electrical systems this book will be an invaluable resource for practising engineers and managers involved in all aspects of hybrid vehicle development modelling simulation and testing

Propulsion Systems for Hybrid Vehicles John M. Miller, 2004

Propulsion Systems for Hybrid Vehicles, **Modeling and Control of Hybrid Propulsion System for Ground Vehicles** Yuan Zou, Junqiu Li, Xiaosong Hu, Yann Chamaillard, 2018-07-02 This book focuses on the systematic design of architectures parameters and control of typical hybrid propulsion systems for wheeled and tracked vehicles based on a combination of theoretical research and engineering practice Adopting a mechatronic system dynamics perspective principles and methods from the fields of optimal control and system optimization are applied in order to analyze the hybrid propulsion configuration and controller design Case investigations for typical hybrid propulsion systems of wheeled and tracked ground vehicles are also provided

Vehicle Propulsion Systems Lino Guzzella, Antonio Sciarretta, 2007-09-21 In this book the longitudinal behavior of road vehicles is analyzed The main emphasis is on the analysis and minimization of the fuel and energy consumption Most approaches to this problem enhance the complexity of the vehicle system by adding components such as electrical motors or storage devices Such a complex system can only be designed by means of mathematical models This text gives an introduction to the modeling and optimization problems typically encountered when designing new propulsion systems for passenger cars It is intended for persons interested in the analysis and optimization of classical and novel vehicle propulsion systems Its focus lies 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 This text has evolved from a lecture series at ETH Zurich Prerequisites are general engineering topics and a first course in optimal control theory

Hybrid Systems, Optimal Control and Hybrid Vehicles Thomas J. Böhme, Benjamin Frank, 2017-02-01 This book assembles new methods showing the automotive engineer for the first time how hybrid vehicle configurations can be modeled as systems with discrete and continuous controls These hybrid systems describe naturally and compactly the

networks of embedded systems which use elements such as integrators hysteresis state machines and logical rules to describe the evolution of continuous and discrete dynamics and arise inevitably when modeling hybrid electric vehicles They can throw light on systems which may otherwise be too complex or recondite Hybrid Systems Optimal Control and Hybrid Vehicles shows the reader how to formulate and solve control problems which satisfy multiple objectives which may be arbitrary and complex with contradictory influences on fuel consumption emissions and drivability The text introduces industrial engineers postgraduates and researchers to the theory of hybrid optimal control problems A series of novel algorithmic developments provides tools for solving engineering problems of growing complexity in the field of hybrid vehicles Important topics of real relevance rarely found in text books and research publications switching costs sensitivity of discrete decisions and there impact on fuel savings etc are discussed and supported with practical applications These demonstrate the contribution of optimal hybrid control in predictive energy management advanced powertrain calibration and the optimization of vehicle configuration with respect to fuel economy lowest emissions and smoothest drivability Numerical issues such as computing resources simplifications and stability are treated to enable readers to assess such complex systems To help industrial engineers and managers with project decision making solutions for many important problems in hybrid vehicle control are provided in terms of requirements benefits and risks *Electric and Hybrid Vehicle Program. Annual Report to Congress. Second. Fiscal Year 1978 ,1979* Electric & Hybrid Vehicle Program United States. Department of Energy. Division of Transportation Energy Conservation,1978 **Electric & Hybrid Vehicle Program** ,1979

Hybrid-Electric Cars and Control Systems Dobri Cundev,2010 Over the last few years hybrid electric vehicles have taken significant role in automotive market There are successful technological solutions of hybrid electric propulsion systems implemented in commercial passenger cars Every automobile manufacturer of hybrid vehicles has unique hybrid propulsion system In this book all implemented systems are described analysed and compared Despites that each company implements different technologies the common feature to all are that their commercial success is strictly related to the control system of the propulsion system Good car hybrid control strategy results with vehicles low fuel consumption which is main reason for implementation of hybrid electric technology and its commercial success This book explains the solution for creation of control system for hybrid cars of the current concepts and newly developed one Entire experimental approach is described for testing newly developed hybrid electric propulsion system within laboratory conditions without constructing actual vehicle **Electric and Hybrid Vehicles Program** ,1994 *Advanced Propulsion System for Hybrid Vehicles* L. V. Norrup,A. T. Lintz,1980 A number of hybrid propulsion systems were evaluated for application in several different vehicle sizes A conceptual design was prepared for the most promising configuration Various system configurations were parametrically evaluated and compared design tradeoffs performed and a conceptual design produced Fifteen vehicle propulsion systems concepts were parametrically evaluated to select two systems and one vehicle for detailed design tradeoff

studies A single hybrid propulsion system concept and vehicle five passenger family sedan were selected for optimization based on the results of the tradeoff studies The final propulsion system consists of a 65 kW spark ignition heat engine a mechanical continuously variable traction transmission a 20 kW permanent magnet axial gap traction motor a variable frequency inverter a 386 kg lead acid improved state of the art battery and a transaxle The system was configured with a parallel power path between the heat engine and battery It has two automatic operational modes electric mode and heat engine mode Power is always shared between the heat engine and battery during acceleration periods In both modes regenerative braking energy is absorbed by the battery

Propulsion Systems Alessandro Serpi,Mario Porru,2019-10-07

The transport sector is one of the most valuable sectors in the world It represents the large oil consumers but still relies mainly on fossil fuels Since the world trend in fossil fuel use is expected to increase further a more sustainable transportation system is unavoidable to cope with emerging economic and social issues such as massive energy consumption and emissions of pollutant gases In this regard this book provides an overview of some recent and promising technological advancements in propulsion systems ranging from on board components to different propulsion system architectures In particular the book aims at giving a brief but significant insight into propulsion system design and architecture by covering different topics and application fields road marine and aerospace

Scientific and Technical Aerospace Reports ,1980

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

Advances in Battery Technologies for Electric Vehicles Bruno Scrosati,Jürgen Garche,Werner Tillmetz,2015-05-25 Advances in Battery Technologies for Electric Vehicles provides an in depth look into the research being conducted on the development of more efficient batteries capable of long distance travel The text contains an introductory section on the market for battery and hybrid electric vehicles then thoroughly presents the latest on lithium ion battery technology Readers will find sections on battery pack design and management a discussion of the infrastructure required for the creation of a battery powered

transport network and coverage of the issues involved with end of life management for these types of batteries Provides an in depth look into new research on the development of more efficient long distance travel batteries Contains an introductory section on the market for battery and hybrid electric vehicles Discusses battery pack design and management and the issues involved with end of life management for these types of batteries Electric and Hybrid Vehicles Program. Annual Report to Congress. Sixteenth. Fiscal Year 1992 ,1993 **A Design Study of Propulsion Systems for a Hybrid Vehicle :**
Summary Report W. H. Candlish,J. W. Owens,Marathon Electric Vehicles Inc,Transportation Development Centre (Canada),1985 **Fundamentals of Medium/Heavy Duty Diesel Engines** Gus Wright,2015-12-16 Jones Bartlett Learning
CDX Automotive Cover

Unveiling the Magic of Words: A Overview of "**Propulsion Systems For Hybird Vehicles**"

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