



Automotive Power Train Systems

Zongxuan Sun, Guoming G. Zhu



Automotive Power Train Systems:

Vehicle Powertrain Systems Behrooz Mashadi, David Crolla, 2011-12-30 Vehicle Powertrain Systems The powertrain is at the heart of vehicle design the engine whether it is a conventional hybrid or electric design provides the motive power which is then managed and controlled through the transmission and final drive components The overall powertrain system therefore defines the dynamic performance and character of the vehicle The design of the powertrain has conventionally been tackled by analyzing each of the subsystems individually and the individual components for example engine transmission and driveline have received considerable attention in textbooks over the past decades The key theme of this book is to take a systems approach to look at the integration of the components so that the whole powertrain system meets the demands of overall energy efficiency and good drivability Vehicle Powertrain Systems provides a thorough description and analysis of all the powertrain components and then treats them together so that the overall performance of the vehicle can be understood and calculated The text is well supported by practical problems and worked examples Extensive use is made of the MATLAB software and many example programmes for vehicle calculations are provided in the text Key features Structured approach to explaining the fundamentals of powertrain engineering Integration of powertrain components into overall vehicle design Emphasis on practical vehicle design issues Extensive use of practical problems and worked examples Provision of MATLAB programmes for the reader to use in vehicle performance calculations This comprehensive and integrated analysis of vehicle powertrain engineering provides an invaluable resource for undergraduate and postgraduate automotive engineering students and is a useful reference for practicing engineers in the vehicle industry

Automotive Power Transmission Systems Yi Zhang, Chris Mi, 2018-07-18 Provides technical details and developments for all automotive power transmission systems The transmission system of an automotive vehicle is the key to the dynamic performance drivability and comfort and fuel economy Modern advanced transmission systems are the combination of mechanical electrical and electronic subsystems The development of transmission products requires the synergy of multi disciplinary expertise in mechanical engineering electrical engineering and electronic and software engineering Automotive Power Transmission Systems comprehensively covers various types of power transmission systems of ground vehicles including conventional automobiles driven by internal combustion engines and electric and hybrid vehicles The book covers the technical aspects of design analysis and control for manual transmissions automatic transmission CVTs dual clutch transmissions electric drives and hybrid power systems It not only presents the technical details of key transmission components but also covers the system integration for dynamic analysis and control Key features Covers conventional automobiles as well as electric and hybrid vehicles Covers aspects of design analysis and control Includes the most recent developments in the field of automotive power transmission systems The book is essential reading for researchers and practitioners in automotive mechanical and electrical engineering

Electric Powertrain John G. Hayes, G. Abas

Goodarzi,2017-11-13 The why what and how of the electric vehicle powertrain Empowers engineering professionals and students with the knowledge and skills required to engineer electric vehicle powertrain architectures energy storage systems power electronics converters and electric drives The modern electric powertrain is relatively new for the automotive industry and engineers are challenged with designing affordable efficient and high performance electric powertrains as the industry undergoes a technological evolution Co authored by two electric vehicle EV engineers with decades of experience designing and putting into production all of the powertrain technologies presented this book provides readers with the hands on knowledge skills and expertise they need to rise to that challenge This four part practical guide provides a comprehensive review of battery hybrid and fuel cell EV systems and the associated energy sources power electronics machines and drives Introduces and holistically integrates the key EV powertrain technologies Provides a comprehensive overview of existing and emerging automotive solutions Provides experience based expertise for vehicular and powertrain system and sub system level study design and optimization Presents many examples of powertrain technologies from leading manufacturers Discusses the dc traction machines of the Mars rovers the ultimate EVs from NASA Investigates the environmental motivating factors and impacts of electromobility Presents a structured university teaching stream from introductory undergraduate to postgraduate Includes real world problems and assignments of use to design engineers researchers and students alike Features a companion website with numerous references problems solutions and practical assignments Includes introductory material throughout the book for the general scientific reader Contains essential reading for government regulators and policy makers Electric Powertrain Energy Systems Power Electronics and Drives for Hybrid Electric and Fuel Cell Vehicles is an important professional resource for practitioners and researchers in the battery hybrid and fuel cell EV transportation industry The resource is a structured holistic textbook for the teaching of the fundamental theories and applications of energy sources power electronics and electric machines and drives to engineering undergraduate and postgraduate students

Systems Engineering for Automotive Powertrain Development Hannes

Hick,Klaus Küpper,Helfried Sorger,2020 For the last century the automotive industry has been dominated by internal combustion engines Their flexibility of application driving range performance and sporty characteristics has resulted in several generations of this technology and has formed generations of engineers But that is not the end of the story Stricter legislation and increased environmental awareness have resulted in the development of new powertrain technologies in addition and parallel to the highly optimized internal combustion engine Hybrid powertrains systems pure battery electric systems and fuel cell systems in conjunction with a diverse range of applications have increased the spectrum of powertrain technologies Furthermore automated driving together with intelligent and highly connected systems are changing the way to get from A to B Not only is the interaction of all these new technologies challenging but also several different disciplines have to collaborate intensively in order for new powertrain systems to be successfully developed These new technologies and the

resulting challenges lead to an increase in system complexity Approaches such as systems engineering are necessary to manage this complexity To show how systems engineering manages the increasing complexity of modern powertrain systems by providing processes methods organizational aspects and tools this book has been structured into five parts Starting with Challenges for Powertrain Development which describes automotive related challenges at different levels of the system hierarchy and from different point of views The book then continues with the core part Systems Engineering in which all the basics of systems engineering model based systems engineering and their related processes methods tools and organizational matters are described A special focus is placed on important standards and the human factor The third part Automotive Powertrain Systems Engineering Approach puts the fundamentals of systems engineering into practice by adding the automotive context This part focuses on system development and also considers the interactions to hardware and software development Several approaches and methods are presented based on systems engineering philosophy Part four Powertrain Development Case Studies adds the practical point of view by providing a range of case studies on powertrain system level and on powertrain element level and discusses the development of hybrid powertrain internal combustion engines e drives transmissions batteries and fuel cell systems Two case studies on a vehicle level are also presented The final part Outlook considers the development of systems engineering itself with particular focus on information communication technologies Even though this book covers systems engineering from an automotive perspective many of the challenges fundamental principles conclusions and outlooks can be applied to other domains too Therefore this book is not only relevant for automotive engineers and students but also for specialists in scientific and industrial positions in other domains and anyone who has to cope with the challenge of successfully developing complex systems with a large number of collaborating disciplines

Design and Control of Automotive Propulsion Systems Zongxuan Sun,Guoming G. Zhu,2014-12-20 Better Understand the Relationship between Powertrain System Design and Its Control Integration While powertrain system design and its control integration are traditionally divided into two different functional groups a growing trend introduces the integration of more electronics sensors actuators and controls into the powertrain system Automotive Power Train Systems Jay Webster, **Guide to the Evaluation of Educational Experiences in the Armed Services: Coast Guard, Marine Corps, Navy, Department of Defense** American Council on Education,1978 **Automotive Power Train Systems** Jay Webster,1982-01-01 **Powertrain Systems for Net-Zero Transport** Taylor & Francis Group,2021-12-20

The transport sector continues to shift towards alternative powertrains particularly with the UK Government s announcement to end the sale of petrol and diesel passenger cars by 2030 and increasing support for alternatives Despite this announcement the internal combustion continues to play a significant role both in the passenger car market through the use of hybrids and sustainable low carbon fuels as well as a key role in other sectors such as heavy duty vehicles and off highway applications across the globe Building on the industry leading IC Engines conference the 2021 Powertrain Systems for Net

Zero Transport conference 7 8 December 2021 London UK focussed on the internal combustion engine s role in Net Zero transport as well as covered developments in the wide range of propulsion systems available electric fuel cell sustainable fuels etc and their associated powertrains To achieve the net zero transport across the globe the life cycle analysis of future powertrain and energy was also discussed Powertrain Systems for Net Zero Transport provided a forum for engine fuels e machine fuel cell and powertrain experts to look closely at developments in powertrain technology required to meet the demands of the net zero future and global competition in all sectors of the road transportation off highway and stationary power industries

Dynamic Powertrain System Modeling and Simulation with Applications for Diagnostics, Design and Control Wenbo Wang,2000

Equipment Operator 3 & 2 United States. Naval Education and Training Command,1980

Advances in Engineering Research and Application Hamido Fujita,Duy Cuong Nguyen,Ngoc Pi Vu,Tien Long Banh,Hermann Horst Puta,2018-11-20 The International Conference on Engineering Research and Applications ICERA 2018 which took place at Thai Nguyen University of Technology Thai Nguyen Vietnam on December 1 2 2018 provided an international forum to disseminate information on latest theories and practices in engineering research and applications The conference focused on original research work in areas including Mechanical Engineering Materials and Mechanics of Materials Mechatronics and Micro Mechatronics Automotive Engineering Electrical and Electronics Engineering Information and Communication Technology By disseminating the latest advances in the field The Proceedings of ICERA 2018 Advances in Engineering Research and Application helps academics and professionals alike to reshape their thinking on sustainable development

Scientific and Technical Aerospace Reports ,1978 *Automotive Fuel, Lubricating, and Cooling Systems* William Harry Crouse,Donald L. Anglin,1976 *Nonlinear Control Methods for Automotive Powertrain Systems* Dong-Il Cho,1987

Hardware-in-the-loop Simulation of a Vehicle Powertrain System on a Transient Hydroztatic Dynamometer Kai Sedlaczek,2001 Catalog ,1973

Seminar on "Automotive Microelectronics State of the Art and Future Developments" ,1987 Automotive Engines William Harry Crouse,1971 The Journal of the Society of Automotive Engineers Society of Automotive Engineers,1924

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