

# DESIGN AND CONTROL OF AUTOMOTIVE PROPULSION SYSTEMS



ZONGXUAN SUN  
GUOMING G. ZHU

# Design And Control Of Automotive Propulsion Systems Mechanical And Aerospace Engineering

**Michael Hoelscher**



## **Design And Control Of Automotive Propulsion Systems Mechanical And Aerospace Engineering:**

**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

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**Design and Control of Automotive Propulsion Systems** focuses on the ICE based automotive powertrain system while presenting the alternative powertrain systems where appropriate Factoring in the multidisciplinary nature of the automotive propulsion system this text does two things adopts a holistic approach to the subject especially focusing on the relationship between propulsion system design and its dynamics and electronic control and covers all major propulsion system components from internal combustion engines to transmissions and hybrid powertrains The book introduces the design modeling and control of the current automotive propulsion system and addresses all three major subsystems system level optimization over engines transmissions and hybrids necessary for improving propulsion system efficiency and performance It provides examples for developing control oriented models for the engine transmission and hybrid It presents the design principles for the powertrain and its key subsystems It also includes tools for developing control systems and examples on integrating sensors actuators and electronic control to improve powertrain efficiency and performance In addition it presents analytical and experimental methods explores recent achievements and discusses future trends Comprised of five chapters containing the fundamentals as well as new research this text Examines the design modeling and control of the internal combustion engine and its key subsystems the valve actuation system the fuel system and the ignition system Expounds on the operating principles of the transmission system the design of the clutch actuation system and transmission dynamics and control Explores the hybrid powertrain including the hybrid architecture analysis the hybrid powertrain model and the energy management strategies Explains the electronic control unit and its functionalities the software in the loop and hardware in the loop techniques for developing and validating control systems

**Design and Control of Automotive Propulsion Systems** provides the background of the automotive propulsion system highlights its challenges and opportunities and shows the detailed procedures for calculating vehicle power demand and the associated powertrain operating conditions

*Design and Control of Automotive Propulsion Systems* Zongxuan Sun,Guoming Zhu (Engineer),2015 This book presents analytical

and experimental methods and achievements in designing mechanical and mechatronic driveline systems Examples include various power dividing units including symmetric and non symmetric varieties as well as open and lockable differentials various limited slip differentials no spins and viscous clutches The text presents logic control algorithms used to control vehicle power dividing units and designs of torque power managing devices The authors approach to designing driveline systems is that characteristics and parameters of a driveline system and a set of power dividing units are established through vehicle performance and energy fuel efficiency analysis and optimization

**Energy Conversion** D. Yogi Goswami, Frank Kreith, 2017-07-06 This handbook surveys the range of methods and fuel types used in generating energy for industry transportation and heating and cooling of buildings Solar wind biomass nuclear geothermal ocean and fossil fuels are discussed and compared and the thermodynamics of energy conversion is explained Appendices are provided with fully updated data Thoroughly revised this second edition surveys the latest advances in energy conversion from a wide variety of currently available energy sources It describes energy sources such as fossil fuels biomass including refuse derived biomass fuels nuclear solar radiation wind geothermal and ocean then provides the terminology and units used for each energy resource and their equivalence It includes an overview of the steam power cycles gas turbines internal combustion engines hydraulic turbines Stirling engines advanced fossil fuel power systems and combined cycle power plants It outlines the development current use and future of nuclear power

**Scientific and Technical Aerospace Reports**, 1987 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

**Nuclear Engineering Handbook** Kenneth D. Kok, 2016-10-03 Building upon the success of the first edition the Nuclear Engineering Handbook Second Edition provides a comprehensive up to date overview of nuclear power engineering Consisting of chapters written by leading experts this volume spans a wide range of topics in the areas of nuclear power reactor design and operation nuclear fuel cycles and radiation detection Plant safety issues are addressed and the economics of nuclear power generation in the 21st century are presented The Second Edition also includes full coverage of Generation IV reactor designs and new information on MRS technologies small modular reactors and fast reactors

**Future Spacecraft Propulsion Systems and Integration** Paul A. Czysz, Claudio Bruno, Bernd Chudoba, 2017-08-30 The updated and expanded third edition of this book focuses on the multi disciplinary coupling between flight vehicle hardware alternatives and enabling propulsion systems It discusses how to match near term and far term aerospace vehicles to missions and provides a comprehensive overview of the subject directly contributing to the next generation space infrastructure from space tourism to space exploration This holistic treatment defines a mission portfolio addressing near term to long term space transportation needs covering sub orbital orbital and escape flight profiles In this context a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access A best practice parametric sizing approach is introduced to correctly design the flight vehicle for

the mission This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike

**Multiphase Flow Handbook** Efstathios Michaelides, Clayton T. Crowe, John D. Schwarzkopf, 2016-10-26 The Multiphase Flow Handbook Second Edition is a thoroughly updated and reorganized revision of the late Clayton Crowe's work and provides a detailed look at the basic concepts and the wide range of applications in this important area of thermal fluids engineering Revised by the new editors Efstathios E Stathis Michaelides and John D Schwarzkopf the new Second Edition begins with two chapters covering fundamental concepts and methods that pertain to all the types and applications of multiphase flow The remaining chapters cover the applications and engineering systems that are relevant to all the types of multiphase flow and heat transfer The twenty one chapters and several sections of the book include the basic science as well as the contemporary engineering and technological applications of multiphase flow in a comprehensive way that is easy to follow and be understood The editors created a common set of nomenclature that is used throughout the book allowing readers to easily compare fundamental theory with currently developing concepts and applications With contributed chapters from sixty two leading experts around the world the Multiphase Flow Handbook Second Edition is an essential reference for all researchers academics and engineers working with complex thermal and fluid systems

**Aeronautical Engineering**, 1971 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA

**Heating and Cooling of Buildings** T. Reddy, Jan F. Kreider, Peter S. Curtiss, Ari Rabl, 2016-09-01 Heating and Cooling of Buildings Principles and Practice of Energy Efficient Design Third Edition is structured to provide a rigorous and comprehensive technical foundation and coverage to all the various elements inherent in the design of energy efficient and green buildings Along with numerous new and revised examples design case studies and homework problems the third edition includes the HCB software along with its extensive website material which contains a wealth of data to support design analysis and planning Based around current codes and standards the Third Edition explores the latest technologies that are central to design and operation of today's buildings It serves as an up to date technical resource for future designers practitioners and researchers wishing to acquire a firm scientific foundation for improving the design and performance of buildings and the comfort of their occupants For engineering and architecture students in undergraduate graduate classes this comprehensive textbook

**Energy Efficiency and Renewable Energy Handbook** D. Yogi Goswami, Frank Kreith, 2015-09-09 For the Movers Shakers and Policy Makers in Energy Engineering and Related Industries The latest version of a bestselling reference Energy Efficiency and Renewable Energy Handbook Second Edition covers the foremost trends and technologies in energy engineering today This new edition contains the latest material on energy planning and policy wi

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