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Vehicle Propulsion Systems

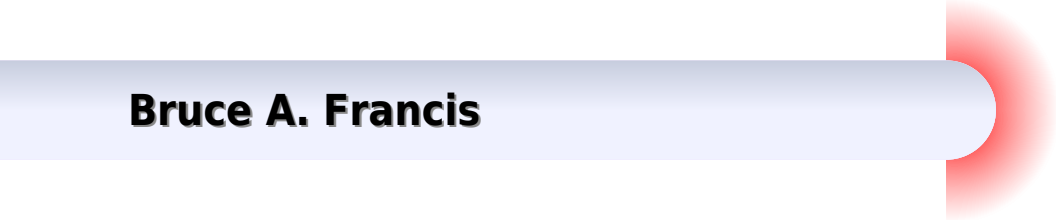
Introduction to Modeling
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Second Edition

 Springer

Modeling And Optimization Of Vehicle Propulsion Systems

Bruce A. Francis



Modeling And Optimization Of Vehicle Propulsion Systems:

Vehicle Propulsion Systems L. Guzzella, Antonio Sciarretta, 2005 Automobiles are responsible for a substantial part of the world's consumption of primary energy mostly fossil liquid hydrocarbons The reduction of the fuel consumption of these vehicles has become a top priority Many ideas to reach that objective have been presented In most cases these systems are more complex than the traditional approaches For such complex systems a heuristic design approach fails The only way to deal with this situation is to employ model based methods This text provides an introduction to the mathematical modeling and subsequent optimization of vehicle propulsion systems and their supervisory control algorithms

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

Modeling and Optimal Control of Heavy-Duty Powertrains Vaheed Nezhadali, 2016-05-30 Heavy duty powertrains are complex systems with components from various domains different response times during transient operations and different efficient operating ranges To ensure efficient transient operation of a powertrain e.g. with low fuel consumption or short transient duration it is important to come up with proper control strategies In this dissertation optimal control theory is used to calculate and analyze efficient heavy duty powertrain controls during transient operations in different applications This is enabled by first developing control ready models usable for multi phase optimal control problem formulations and then using numerical optimal control methods to calculate the optimal transients Optimal control analysis of a wheel loader operating in a repetitive loading cycle is the first studied application Increasing fuel efficiency or reducing the operation time in such repetitive loading cycles sums up to large savings over longer periods of time Load lifting and vehicle traction consume almost all of the power produced by a diesel engine during wheel loader operation Physical models are developed for these subsystems where the dynamics are described by differential equations The model parameters are tuned and fuel consumption estimation is validated against measured values from real wheel loader operation The sensitivity of wheel loader trajectory with respect to constraints such as the angle at which the wheel loader reaches the unloading position is also analyzed A time and fuel optimal trajectory map is calculated for various unloading positions Moreover the importance of simultaneous optimization of wheel loader

trajectory and the component transients is shown via a side to side comparison between measured fuel consumption and trajectories versus optimal control results In another application optimal control is used to calculate efficient gear shift controls for a heavy duty Automatic Transmission system A modeling and optimal control framework is developed for a nine speed automatic transmission Solving optimal control problems using the developed model time and jerk efficient transient for simultaneous disengagement of off going and engagement of in coming shift actuators are obtained and the results are analyzed Optimal controls of a diesel electric powertrain during a gear shift in an Automated Manual Transmission system are calculated and analyzed in another application of optimal control The powertrain model is extended by including driveline backlash angle as an extra state in the system This is enabled by implementation of smoothing techniques in order to describe backlash dynamics as a single continuous function during all gear shift phases Optimal controls are also calculated for a diesel electric powertrain corresponding to a hybrid bus during a tip in maneuver It is shown that for optimal control analysis of complex powertrain systems minimizing only one property such as time pushes the system transients into extreme operating conditions far from what is achievable in real applications Multi objective optimal control problem formulations are suggested in order to obtain a compromise between various objectives when analyzing such complex powertrain systems

16th International Symposium on Advanced Vehicle Control Giampiero Mastinu, Francesco Braghin, Federico Cheli, Matteo Corno, Sergio M. Savaresi, 2024-10-03 This open access book highlights the latest advances innovations and applications in the field of vehicle systems dynamics and control as presented by leading international researchers at the 16th JSAE International Symposium on Advanced Vehicle Control AVEC held at Politecnico di Milano Milan Italy on September 2 6 2024 It covers a diverse range of topics such as vehicle dynamics theory steering brake tire suspension chassis control powertrain electrified vehicles stability enhancement systems driver vehicle systems advanced driver assistance systems and automated driving systems driving simulator dynamics and control The contributions which were selected by means of a rigorous international peer review process present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists

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

8th EASN-CEAS Workshop on Manufacturing for Growth and Innovation Konstantinos Kontis, Spiros Pantelakis, 2019-09-27 This Special Issue contains selected papers from works presented at the 8th EASN CEAS European Aeronautics Science Network Council of European Aerospace Societies

Workshop on Manufacturing for Growth and Innovation which was held in Glasgow UK 4 7 September 2018 About 150 participants contributed to a high level scientific gathering providing some of the latest research results on the topic as well as some of the latest relevant technological advancements in interesting articles which cover a wide range of topics including characterization analysis and design as well as numerical simulation are contained in this Special Issue

The Control Handbook William S. Levine, 2018-10-08 At publication The Control Handbook immediately became the definitive resource that engineers working with modern control systems required Among its many accolades that first edition was cited by the AAP as the Best Engineering Handbook of 1996 Now 15 years later William Levine has once again compiled the most comprehensive and authoritative resource on control engineering He has fully reorganized the text to reflect the technical advances achieved since the last edition and has expanded its contents to include the multidisciplinary perspective that is making control engineering a critical component in so many fields Now expanded from one to three volumes The Control Handbook Second Edition organizes cutting edge contributions from more than 200 leading experts The second volume Control System Applications includes 35 entirely new applications organized by subject area Covering the design and use of control systems this volume includes applications for Automobiles including PEM fuel cells Aerospace Industrial control of machines and processes Biomedical uses including robotic surgery and drug discovery and development Electronics and communication networks Other applications are included in a section that reflects the multidisciplinary nature of control system work These include applications for the construction of financial portfolios earthquake response control for civil structures quantum estimation and control and the modeling and control of air conditioning and refrigeration systems As with the first edition the new edition not only stands as a record of accomplishment in control engineering but provides researchers with the means to make further advances Progressively organized the other two volumes in the set include Control System Fundamentals Control System Advanced Methods

Diesel Engine System Design Qianfan Xin, 2011-05-26 Diesel Engine System Design links everything diesel engineers need to know about engine performance and system design in order for them to master all the essential topics quickly and to solve practical design problems Based on the author's unique experience in the field it enables engineers to come up with an appropriate specification at an early stage in the product development cycle Links everything diesel engineers need to know about engine performance and system design featuring essential topics and techniques to solve practical design problems Focuses on engine performance and system integration including important approaches for modelling and analysis Explores fundamental concepts and generic techniques in diesel engine system design incorporating durability reliability and optimization theories

Control of Uncertain Systems: Modelling, Approximation, and Design Bruce A. Francis, 2006-03-07 This Festschrift contains a collection of articles by friends co authors colleagues and former Ph D students of Keith Glover Professor of Engineering at the University of Cambridge on the occasion of his sixtieth birthday Professor Glover's scientific work spans a wide variety of

topics the main themes being system identification model reduction and approximation robust controller synthesis and control of aircraft and engines The articles in this volume are a tribute to Professor Glover's seminal work in these areas

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