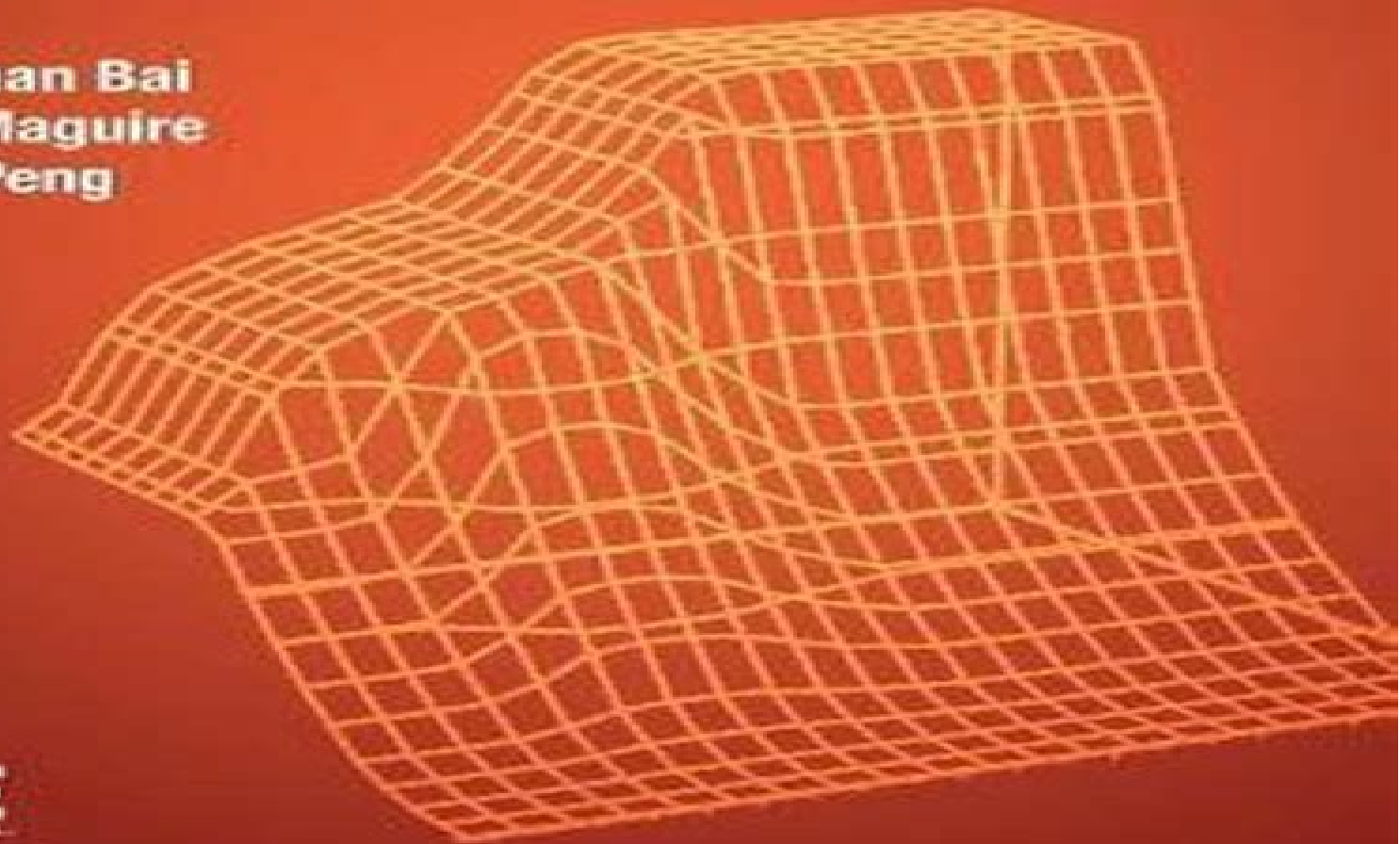


Dynamic Analysis and Control System Design of Automatic Transmissions

Shushan Bai
Joel Maguire
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Dynamic Analysis And Control System Design Of Automatic Transmissions

Daniela Niemeyer



Dynamic Analysis And Control System Design Of Automatic Transmissions:

Dynamic Analysis and Control System Design of Automatic Transmissions Joel M Maguire, Huei Peng, Shushan Bai, 2013-02-12 While the basic working principle and the mechanical construction of automatic transmissions has not changed significantly increased requirements for performance fuel economy and drivability as well as the increasing number of gears has made it more challenging to design the systems that control modern automatic transmissions New types of transmissions continuously variable transmissions CVT dual clutch transmissions DCT and hybrid powertrains have presented added challenges Gear shifting in today s automatic transmissions is a dynamic process that involves synchronized torque transfer from one clutch to another smooth engine speed change engine torque management and minimization of output torque disturbance Dynamic analysis helps to understand gear shifting mechanics and supports creation of the best design for gear shift control systems in passenger cars trucks buses and commercial vehicles Based on the authors graduate level teaching material this well illustrated book relays how the fundamental principles of hydraulics and control systems are applied to today s automatic transmissions It opens with coverage of basic automatic transmission mechanics and then details dynamics and controls associated with modern automatic transmissions Topics covered include gear shifting mechanics and controls dynamic models of planetary automatic transmissions design of hydraulic control systems learning algorithms for achieving consistent shift quality torque converter clutch controls centrifugal pendulum vibration absorbers friction launch controls shift scheduling and integrated powertrain controls continuously variable transmission ratio controls dual clutch transmission controls and more The book includes many equations and clearly explained examples Sample Simulink models of various transmission mechanical hydraulic and control subsystems are also provided Chapter Two which covers planetary gear automatic transmissions includes homework questions making it ideal for classroom use In addition to students new engineers will find the book helpful because it provides the basics of transmission dynamics and control More experienced engineers will appreciate the theoretical discussions that will help elevate the reader s knowledge Although many automatic transmission related books have been published most focus on mechanical construction operation principles and control hardware None tie the dynamic analysis control system design and analytic investigation of the mechanical hydraulic and electronic controls as does this book

Dynamic Analysis and Control System Design of Automatic Transmissions Joel M Maguire, Huei Peng, Shushan Bai, 2013-02-12 While the basic working principle and the mechanical construction of automatic transmissions has not changed significantly increased requirements for performance fuel economy and drivability as well as the increasing number of gears has made it more challenging to design the systems that control modern automatic transmissions New types of transmissions continuously variable transmissions CVT dual clutch transmissions DCT and hybrid powertrains have presented added challenges Gear shifting in today s automatic transmissions is a dynamic process that involves synchronized torque transfer from one clutch to another smooth engine speed change

engine torque management and minimization of output torque disturbance Dynamic analysis helps to understand gear shifting mechanics and supports creation of the best design for gear shift control systems in passenger cars trucks buses and commercial vehicles Based on the authors graduate level teaching material this well illustrated book relays how the fundamental principles of hydraulics and control systems are applied to today s automatic transmissions It opens with coverage of basic automatic transmission mechanics and then details dynamics and controls associated with modern automatic transmissions Topics covered include gear shifting mechanics and controls dynamic models of planetary automatic transmissions design of hydraulic control systems learning algorithms for achieving consistent shift quality torque converter clutch controls centrifugal pendulum vibration absorbers friction launch controls shift scheduling and integrated powertrain controls continuously variable transmission ratio controls dual clutch transmission controls and more The book includes many equations and clearly explained examples Sample Simulink models of various transmission mechanical hydraulic and control subsystems are also provided Chapter Two which covers planetary gear automatic transmissions includes homework questions making it ideal for classroom use In addition to students new engineers will find the book helpful because it provides the basics of transmission dynamics and control More experienced engineers will appreciate the theoretical discussions that will help elevate the reader s knowledge Although many automatic transmission related books have been published most focus on mechanical construction operation principles and control hardware None tie the dynamic analysis control system design and analytic investigation of the mechanical hydraulic and electronic controls as does this book

Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2, 2015-09-28 The light duty vehicle fleet is expected to undergo substantial technological changes over the next several decades New powertrain designs alternative fuels advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards By the end of the next decade cars and light duty trucks will be more fuel efficient weigh less emit less air pollutants have more safety features and will be more expensive to purchase relative to current vehicles Though the gasoline powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030 such vehicles will be equipped with advanced technologies materials electronics and controls and aerodynamics And by 2030 the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation including autonomous vehicles will be well underway What are these new technologies how will they work and will some technologies be more effective than others Written to inform The United States Department of Transportation s National Highway Traffic Safety Administration NHTSA and Environmental Protection Agency EPA Corporate Average Fuel Economy CAFE and greenhouse gas GHG emission standards this new report from the National

Research Council is a technical evaluation of costs benefits and implementation issues of fuel reduction technologies for next generation light duty vehicles **Cost Effectiveness and Deployment of Fuel Economy Technologies for Light Duty Vehicles** estimates the cost potential efficiency improvements and barriers to commercial deployment of technologies that might be employed from 2020 to 2030 This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017 2025 CAFE standards *Advances in Mechanical Engineering* Alexander N. Evgrafov,2020-11-11 This book draws together the most interesting recent results to emerge in mechanical engineering in Russia providing a fascinating overview of the state of the art in the field in that country which will be of interest to a wide readership A broad range of topics and issues in modern engineering are discussed including dynamics of machines materials engineering structural strength transport technologies machinery quality and innovations The book comprises selected papers presented at the 9th conference Modern Engineering Science and Education held at the Peter the Great Saint Petersburg Polytechnic University in June 2020 with the support of the Russian Engineering Union The authors are experts in various fields of engineering and all of the papers have been carefully reviewed The book will be of interest to mechanical engineers lecturers in engineering disciplines and engineering graduates *Advances in Gear Theory and Gear Cutting Tool Design* Stephen P. Radzevich,Michael Storchak,2022-07-01 This book was written by a team of leading gear experts from across the globe including contributions from USA Germany Poland China Russia Ukraine and Belarus It provides readers with the latest accomplishments in the gear theory and gear cutting tool design Specialists can apply competencies gained from this book to quality control in gear manufacture as well as to the conditions of their production The book begins with a detailed discussion of the kinematics and geometry of geometrically accurate gears and gear systems This is followed by an analysis of state of the art gear manufacturing methods with focus on gear finishing operations Novel designs of gear transmission systems as well as gear theory and gear cutting tool design are also covered Mechanical, Electronic and Information Technology Engineering X.Q. Zeng,Y.N. Chen,B. Xu,2015-03-23 Selected peer reviewed papers from the 2015 International Conference on Mechanical Electronic and Information Technology Engineering ICMITE 2015 March 21 22 2015 Chongqing China *Proceedings of SAE-China Congress 2015: Selected Papers* China Society of Automotive Engineers,2015-11-30 These proceedings gather outstanding papers submitted to the 2015 SAE China Congress the majority of which are from China the biggest car maker as well as most dynamic car market in the world The book covers a wide range of automotive topics presenting the latest technical achievements in the industry Many of the approaches presented can help technicians to solve the practical problems that most affect their daily work **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

Automotive Power Transmission Systems Yi Zhang,Chris Mi,2018-10-08
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

Applied System Innovation Teen-Hang Meen, Stephen Prior, Artde Lam, 2018-09-03 The 2015 International Conference on Applied System Innovation ICASI 2015 was held May 22-27 2015 in Osaka Japan and provided a unified communication platform for researchers active in a wide range of research fields Professionals from industry academia and government were encouraged to discourse on research and development professional practice business and management in the information innovation communication and engineering fields This conference enabled interdisciplinary collaboration between science and engineering technologists in the academic and industry fields as well as networking internationally The conference received 1063 submitted papers whereby 421 papers were selected by the committees to be presented at the ICASI 2015 conference These papers were divided into 13 Regular Sessions and 13 Invited Sessions and presented in several parallel sessions The ICASI 2015 committees selected 226 excellent papers for publication in this proceedings volume covering topics ranging from information technology innovation design communication science and engineering industrial design creative design applied mathematics computer science design theory and cultural and creative research to electrical and electronic engineering mechanical and automation engineering green technology and architecture engineering and material science among others

Electronic Transmission Controls Ronald K Jurgen, 2000-06-10 The evolution of the automotive transmission has changed rapidly in the last decade partly due to the advantages of highly sophisticated electronic controls This evolution has resulted in modern automatic transmissions that offer more control stability and convenience to the driver Electronic Transmission Controls contains 68 technical papers from SAE and other international organizations written since 1995 on this rapidly growing area of automotive electronics This book breaks down the topic into two sections The section on Stepped Transmissions covers recent developments in regular and 4 wheel drive transmissions from major auto manufacturers including DaimlerChrysler General Motors Toyota Honda and Ford Technology covered in this section includes smooth shift control automatic transmission efficiency mechatronic systems fuel saving technologies shift control using information from vehicle navigation systems and fuzzy logic control The section on Continuously Variable Transmissions presents papers that demonstrate that CVTs offer better efficiency than conventional transmissions Technologies covered in this section include powertrain control fuel consumption improvement development of a 2 way

clutch system internal combustion engines with CVTs in passenger cars control and shift strategies and CVT application to hybrid powertrains The book concludes with a chapter on the future of electronic transmissions in automobiles **Annual Index/abstracts of SAE Technical Papers** ,2007 *Road and Off-Road Vehicle System Dynamics Handbook* Gianpiero Mastinu,Manfred Ploechl,2014-01-06 Featuring contributions from leading experts the Road and Off Road Vehicle System Dynamics Handbook provides comprehensive authoritative coverage of all the major issues involved in road vehicle dynamic behavior While the focus is on automobiles this book also highlights motorcycles heavy commercial vehicles and off road vehicles The authors of the individual chapters both from automotive industry and universities address basic issues but also include references to significant papers for further reading Thus the handbook is devoted both to the beginner wishing to acquire basic knowledge on a specific topic and to the experienced engineer or scientist wishing to have up to date information on a particular subject It can also be used as a textbook for master courses at universities The handbook begins with a short history of road and off road vehicle dynamics followed by detailed state of the art chapters on modeling analysis and optimization in vehicle system dynamics vehicle concepts and aerodynamics pneumatic tires and contact wheel road off road modeling vehicle subsystems vehicle dynamics and active safety man vehicle interaction intelligent vehicle systems and road accident reconstruction and passive safety Provides extensive coverage of modeling simulation and analysis techniques Surveys all vehicle subsystems from a vehicle dynamics point of view Focuses on pneumatic tires and contact wheel road off road Discusses intelligent vehicle systems technologies and active safety Considers safety factors and accident reconstruction procedures Includes chapters written by leading experts from all over the world This text provides an applicable source of information for all people interested in a deeper understanding of road vehicle dynamics and related problems **Technical Abstract Bulletin** , **Automotive NVH Technology** Anton Fuchs,Eugenius Nijman,Hans-Herwig Priebsch,2015-10-31 This book presents seven chapters examining selected noise vibration and harshness NVH topics that are highly relevant for automotive vehicle development These include applications following the major trends toward increased passenger comfort vehicle electrification and lightweight design The authors of the seven chapters all of which are experts from the automotive industry and academia present the foremost challenges and potential solutions in this demanding field Among others applications for sound optimization in downsized engines noise optimization in electric powertrains weight reduction options for exhaust systems porous materials description and the vibro acoustic analysis of geared systems are discussed *Aeronautical Engineering* ,1991 **Parasitic Phenomena in the Dynamics of Industrial Devices** Alberto Borboni,Rodolfo Faglia,2011-10-06 In the real world the dynamic behavior of a real machine presents either unforeseen or limiting phenomena both are undesired and can be therefore be classified as parasitic phenomena unwanted unforeseen or limiting behaviors Parasitic Phenomena in the Dynamics of Industrial Devices describes the potential causes and effects of these behaviors and provides indications that could minimize their influence on the

mechanical system in question The authors introduce the phenomena and explore them through real cases avoiding academic introductions but inserting the entire academic and experimental knowledge that is useful to understand and solve real world problems They then examine these parasitic phenomena in the machine dynamics using two cases that cover the classical cultural division between cam devices and mechanisms They also present concrete cases with an amount of experimental data higher than the proposed ones and with a modern approach that can be applied to various mechanical devices acquiring real knowledge superior to one of the mere finite element systems or collections of mechanical devices Organizes machine dynamics through systems theory to give a comprehensive vision of the design problem Details machine dynamics at an advanced mathematics level and avoids redundancy of fundamental knowledge Introduces real machine cases for solutions to practical problems Covers two broad classes of mechanical devices that are widely used in the construction of instrumental goods Employs a mechatronic approach that can be applied to electro mechanical hydro mechanical or pneumo mechanical machines Highlighting industrial devices in the manufacturing industry including industrial indexing devices and industrial robots the book offers case studies advanced models design methods and short examples of applications It is of critical importance for any manufacturing enterprise that produces significant amounts of objects through a process with one or more automated phases

Proceedings of the ASME Dynamic Systems and Control Division--2003 ,2003 **Cumulative Index [of The] SAE Papers** Society of Automotive Engineers,1965 **Bibliography on Motor Vehicle & Traffic Safety** United States. National Bureau of Standards. Office of Vehicle Systems Research,1971

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