

Dynamic Analysis and Control System Design of Automatic Transmissions

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Dynamic Analysis And Control System Design Of Automatic Transmissions

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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

Entwicklung eines virtuellen Getriebeprüfstands Röper, Jan, 2017-11-27 Um die korrekte Montage und Funktion von Automatgetrieben sicherzustellen werden diese am Ende der Produktion geprüft Diese Prüfung wird durch eine Prüfautomatisierung ausgeführt die mit Hilfe von Prüfprogrammen die Qualität der Getriebe bewertet Bei der Entwicklung von Prüfautomatisierung und Prüfprogrammen stellt die Verfügbarkeit von Prüfstand und Prüfling eine Einschränkung dar Insbesondere in frühen Phasen der Produktentstehung des Getriebes ist es nicht möglich das Verhalten des Prüfsystems zu testen Um die Abhängigkeit von Prüfstand und Prüfling zu verringern wird ein virtueller Getriebeprüfstand entwickelt der aus Modellen von Prüfstand und Getriebe besteht Die Logik der Prüfstandssteuerung

Speicher Programmierbare Steuerung sowie Fragmente der Steuerger tesoftware des Getriebes werden ebenfalls abgebildet Das entwickelte System kann mit einem Hardware in the Loop Pr fstand verglichen werden Die Pr fautomatisierung und die Pr fprogramme werden auf der Zielhardware ausgef hrt und sind das Testobjekt Der virtuelle Getriebepr fstand hat auch Gemeinsamkeiten mit Software in the Loop Systemen da Teile der Steuerger tesoftware und der Pr fstandssteuerung simuliert werden F r die Kommunikation zwischen Pr fautomatisierung und virtuellem Pr fstand werden die gleichen Schnittstellen wie in der Fertigung verwendet Durch die Verwendung identischer Schnittstellen wird eine Vorabinbetriebnahme m glich was zu verringertem Aufwand bei der Inbetriebnahme im Fertigungsbereich f hrt Die erneute Konfiguration der Pr fautomatisierung in der realen Umgebung entf llt wodurch potentielle Fehlerquellen ausgeschlossen werden Die Entwicklung von Modellen von Pr fstand und Getriebe wird von der Verf gbarkeit von Informationen beeinflusst Informationen sind jedoch deutlich fr her verf gbar als Getriebe und Pr fst nde In dieser Arbeit werden Modelle mit unterschiedlicher Detaillierung entwickelt die die Verf gbarkeit von Informationen widerspiegeln Mit den verschiedenen Modellen werden typische Aufgaben der Entwicklung von Pr fautomatisierung und Pr fprogrammen bearbeitet Die Aufgaben umfassen zum Beispiel Software und Schnittstellentests f r die eine geringe Detaillierung ausreicht Als Beispiel f r eine Aufgabe die ein detailliertes Modell erfordert wird ein Pr fverfahren f r hydraulische Leckage entwickelt Durch die Bearbeitung der Beispielaufgaben wird die F higkeit des virtuellen Pr fstands aufgezeigt den realen Pr fstand trotz der bestehenden Informationsabh ngigkeit zu ersetzen Potentiale f r die Verbesserung der verwendeten Modelle sowie zuk nftige Anwendungsf lle f r einen virtuellen Pr fstand werden aufgezeigt The demand for quality and safety tests at the production of automatic transmissions increases with their growing complexity As a result end of line tests are carried out automatically on test benches which are used to stimulate and asses the characteristics of the test object The development of test automation and test procedures is constrained by the availability of test object and test bench during the product development phase A detailed evaluation of the test system performance can only be carried out close to the commissioning of the production line The same applies to updates of the test system which can only be tested during live operation of the production To ease this bottleneck a virtual test bench which allows independent thorough testing is introduced The virtual test bench consists of models of the test bench and the automatic transmission The resulting setup can be compared to a hardware in the loop system The test automation software is the test object which is executed on the original hardware while test bench and automatic transmission are simulated separately The virtual test bench also shows characteristics of a software in the loop system since it incorporates a simulation of the relevant transmission control unit software and the logic of the test bench programmable logic controller The virtual test bench uses the same interfaces for the communication with the test automation as the real test bench Therefore a preliminary commissioning can be carried out to reduce the effort at the production site A reconfiguration of the test automation after transfer to the production site is not necessary which

eliminates potential errors The development of the virtual test bench is restricted by the availability of information during the product development process of the automatic transmission However information is typically available prior to hardware The benefit of exploiting the available information is shown in this thesis Models with different modeling depth are presented which reflect the availability of information With the resulting models typical tasks are carried out which are representative for the development of an automatic test system for mechatronic systems The tasks range from software tests and investigations on communication properties to the development of test methods for leakage in the transmissions hydraulic system The ability and the limitations to assess the test system are shown for the different models Potential model refinements and future applications of the virtual test bench are identified

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

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

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 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 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 **Der Antrieb von morgen 2015** Johannes Liebl,2018-02-26 Die inhaltlichen Schwerpunkte des Tagungsbands zur ATZlive Veranstaltung Der Antrieb von morgen 2015 liegen in den Antriebskomponenten im Systemansatz Aufbauend auf den Ergebnissen der vergangenen Tagungen werden die Systemgrenzen erweitert und Verbrennungsmotor Elektromaschine Getriebe Batterie und Nebenaggregate als Gesamtheit betrachtet Die Tagung ist eine unverzichtbare Plattform f r den Wissens und Gedankenaustausch von Forschern und Entwicklern aller Unternehmen und Institutionen die dieses Ziel verfolgen Tribology and Dynamics of Engine and Powertrain Homer Rahnejat,2010-09-30 Tribology the science of friction wear and lubrication is one of the cornerstones of engineering s quest for efficiency and conservation of resources Tribology and dynamics of engine and powertrain fundamentals applications and future trends provides an authoritative and comprehensive overview of the disciplines of dynamics and tribology using a multi physics and multi scale approach to improve automotive engine and powertrain technology Part one reviews the fundamental aspects of the physics of motion particularly the multi body approach to multi physics multi scale problem solving in tribology Fundamental issues in tribology are then described in detail from surface phenomena in thin film tribology to impact dynamics fluid film and elastohydrodynamic lubrication means of measurement and evaluation These chapters provide an understanding of the theoretical foundation for Part II which includes many aspects of the physics of motion at a multitude of interaction scales from large displacement dynamics to noise and vibration tribology all of which affect engines and powertrains Many chapters are contributed by well established practitioners disseminating their valuable knowledge and expertise on specific engine and powertrain sub systems These include overviews of engine and powertrain issues engine bearings piston systems valve trains transmission and many aspects of drivetrain systems The final part of the book considers the emerging areas of microengines and gears as well as nano scale surface engineering With its distinguished editor and international team of academic and industry contributors Tribology and dynamics of engine and powertrain is a standard work for automotive engineers and all those researching NVH and tribological issues in engineering Reviews fundamental aspects of physics in motion specifically the multi body approach to multi physics Describes essential issues in tribology from surface phenomena in thin film tribology to impact dynamics Examines specific engine and powertrain sub systems including engine bearings piston systems and value trains Scientific and Technical Aerospace Reports ,1991 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 **Information, Computer and Application Engineering**

Hsiang-Chuan Liu, Wen-Pei Sung, Wenli Yao, 2018-06-12 This proceedings volume brings together peer reviewed papers presented at the International Conference on Information Technology and Computer Application Engineering held 10-11 December 2014 in Hong Kong China. Specific topics under consideration include Computational Intelligence, Computer Science and its Applications, Intelligent Information Processing and Knowledge Engineering, Intelligent Networks and Instruments, Multimedia, Signal Processing and Analysis, Intelligent Computer Aided Design Systems and other related topics. This book provides readers a state of the art survey of recent innovations and research worldwide in Information Technology and Computer Application Engineering in so doing furthering the development and growth of these research fields, strengthening international academic cooperation and communication and promoting the fruitful exchange of research ideas. This volume will be of interest to professionals and academics alike serving as a broad overview of the latest advances in the dynamic field of Information Technology and Computer Application Engineering. Technology for Large Space Systems, 1990 British Technology Index, 1978 Automated Highway Systems Petros Ioannou, 2013-04-17 Experts address some of the main issues and uncertainties associated with the design and deployment of Automated Highway Systems (AHS). They discuss new AHS concepts, technology and benefits as well as institutional, environmental and social issues, concerns that will affect dramatically the operation of the current highway system from both the vehicle and infrastructure points of view. Handbook of Natural Gas Transmission and Processing Saeid Mokhatab, William A. Poe, 2012-07-02 Acquire the tools and techniques that will help meet the world's growing natural gas demand. Handbook of Natural Gas Transmission and Processing 2nd Edition gives engineers and managers complete coverage of natural gas transmission and processing in the most rapidly growing sector to the petroleum industry. Emphasizing the practical aspects of natural gas production over the theoretical, the authors provide a unique discussion of new technologies that are energy efficient and environmentally appealing at the same time. This 2nd edition examines ways to select the best processing route for optimal design of gas processing plants and includes three new chapters on dynamics of process controls, process modeling and simulation and optimal design of gas processing plants. Both Chapter 7 Acid Gas Treating and Chapter 9 Natural Gas Dehydration are heavily revised. The objective of this work is to provide plant designers and owners/operators methods to decrease construction costs and total cost of ownership while addressing reliability and availability. *Computer Literature Bibliography: 1964-1967* W. W. Youden, 1965 **Antriebsstrangsysteme in Kraftfahrzeugen** Behrooz Mashadi, David Crolla, 2014-09-03 Energieverbrauch minimieren, globale Emissionen senken, das sind die Herausforderungen vor denen die Automobilindustrie im 21. Jahrhundert steht. Da das Interesse an Fahrkomfort ungebrochen ist, hängt der kommerzielle Erfolg eines Fahrzeugs davon ab, dass die Balance zwischen diesen Gegensätzen gelingt. Entscheidend dabei ist das Antriebsstrangsystem, das Herzstück jedes Kraftfahrzeugs. Hier wird die Antriebskraft erzeugt, die Beschleunigung und Geschwindigkeit ebenso bestimmt wie Energieverbrauch und Effizienz. Gut nachvollziehbar stellt diese Einführung die

Prinzipien des Antriebsstrangs vor Studenten gewinnen für den konventionellen Antriebsstrang ein umfassendes Verständnis das für die Fahrzeugentwicklung unerlässlich ist Praktiker finden die notwendigen Voraussetzungen für die Weiterentwicklung spezieller Konzepte wie dem Antriebsstrang in Hybridfahrzeugen und fortgeschrittenen Getriebearten An zahlreichen durchgerechneten Beispielen sowie Aufgaben kann im Selbsttest das erlernte Wissen vertieft werden kommentierter MATLAB Code erlaubt konkrete numerische Berechnungen mit unterschiedlichen Parametern Der systematische Ansatz der Autoren stellt Integration und Interaktionen zwischen sämtlichen Komponenten des Antriebsstrangs vom Verbrennungsmotor über Getriebe und Achsantrieb bis hin zu Rädern und Reifen in den Fokus Mit Zusatzmaterial für Dozenten unter www.wiley-vch.de **General Motors Engineering Journal** ,1957 **U.S. Government Research Reports** ,1962 Technical Abstract Bulletin Defense Documentation Center (U.S.),1963

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