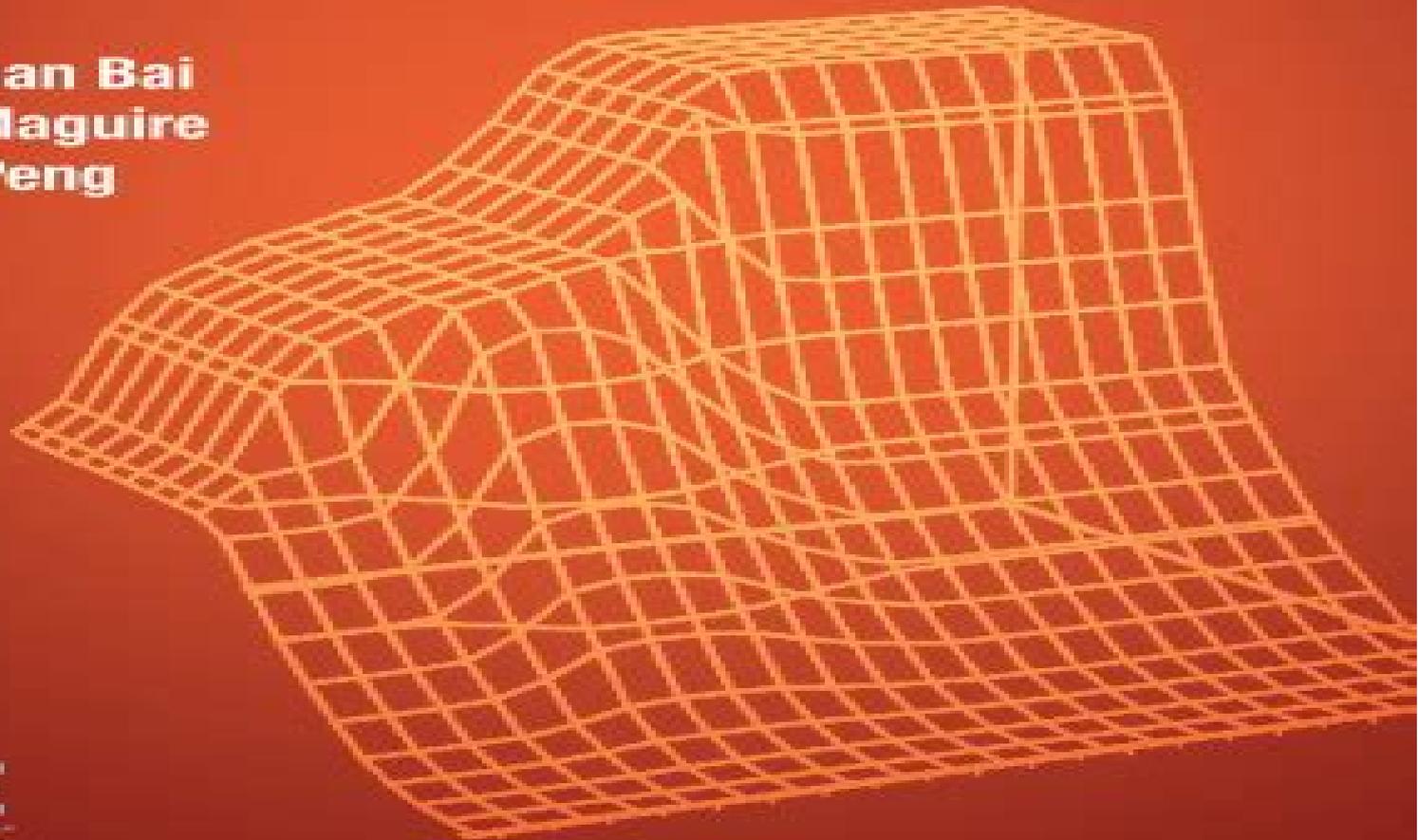


Dynamic Analysis and Control System Design of Automatic Transmissions

Shushan Bai
Joel Maguire
Huei Peng



Dynamic Analysis And Control System Design Of Automatic Transmissions

Jin-Ying Zhang



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

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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

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Automatisation de L'exploitation Minière II Canada Centre for Mineral and Energy Technology,Mining Research Laboratories (Canada),1986 In 1985 a proposal was made to establish an international research centre for innovative systems of remote mining in the U S CANMET was requested to study the proposal and to prepare a Canadian response To bring together representatives of the Canadian mining industry and get their views on the proposal a workshop was held in March 1986 attended mainly by representatives of hardrock mining with few operators of open pit mines and quarries as well as other key sectors In an attempt to establish the viewpoints of the missing sectors a second workshop was held in October 1986 with similar results This report contains all of the written submissions received in connection with the workshop as well as brief summaries of the principal points made for non written submissions Views and opinions of the universities manufacturers and consultants the mining industry government organizations and other organizations and individuals are

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