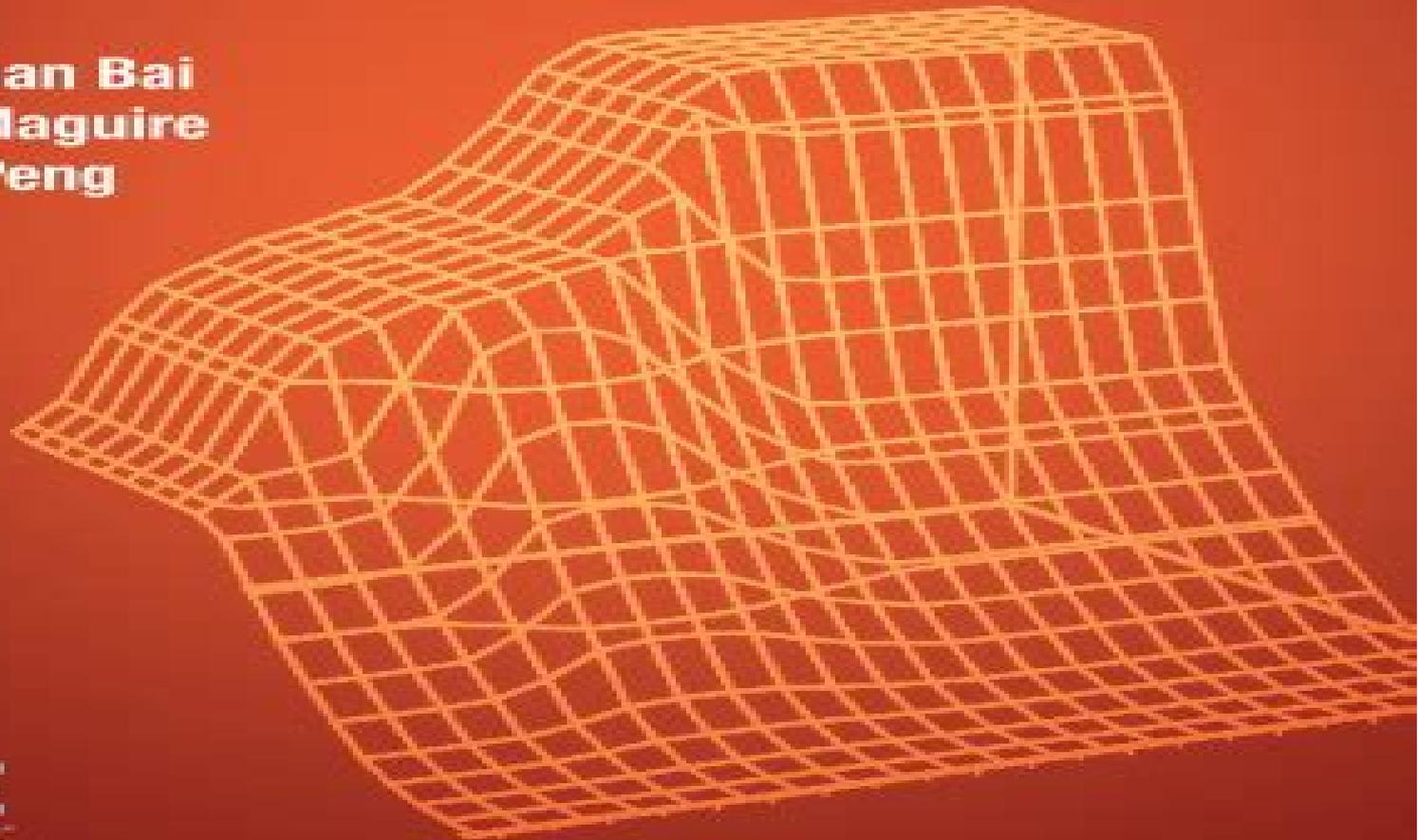


Dynamic Analysis and Control System Design of Automatic Transmissions

Shushan Bai
Joel Maguire
Huei Peng



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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

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