



# Nonlinear Estimation and Control of Automotive Drivetrains

*Hong Chen, Bingzhao Gao*

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*Nonlinear Estimation and Control of Automotive Drivetrains* discusses the control problems involved in automotive drivetrains, particularly in hydraulic Automatic Transmission (AT), Dual Clutch Transmission (DCT) and Automated Manual Transmission (AMT). Challenging estimation and control problems, such as driveline torque estimation and gear shift control, are addressed by applying the latest nonlinear control theories, including constructive nonlinear control (Backstepping, Input-to-State Stable) and Model Predictive Control (MPC). The estimation and control performance is improved while the calibration effort is reduced significantly. The book presents many detailed examples of design processes and thus enables the readers to understand how to successfully combine purely theoretical methodologies with actual applications in vehicles.

The book is intended for researchers, PhD students, control engineers and automotive engineers.

**Hong Chen** is a professor at the State Key Laboratory of Automotive Simulation and Control, and the Department of Control Science and Engineering at Jilin University. **Bingzhao Gao** is an associate professor at the State Key Laboratory of Automotive Simulation and Control at Jilin University.

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