



## Design and Control of Automotive Propulsion Systems (Hardback)

By Zongxuan Sun, Guoming G. Zhu

Taylor Francis Inc, United States, 2015. Hardback. Condition: New. Language: English . Brand New Book. Better Understand the Relationship between Powertrain System Design and Its Control Integration While powertrain system design and its control integration are traditionally divided into two different functional groups, a growing trend introduces the integration of more electronics (sensors, actuators, and controls) into the powertrain system. This has impacted the dynamics of the system, changing the traditional mechanical powertrain into a mechatronic powertrain, and creating new opportunities for improved efficiency. Design and Control of Automotive Propulsion Systems focuses on the ICE-based automotive powertrain system (while presenting the alternative powertrain systems where appropriate). Factoring in the multidisciplinary nature of the automotive propulsion system, this text does two things-adopts a holistic approach to the subject, especially focusing on the relationship between propulsion system design and its dynamics and electronic control, and covers all major propulsion system components, from internal combustion engines to transmissions and hybrid powertrains. The book introduces the design, modeling, and control of the current automotive propulsion system, and addresses all three major subsystems: system level optimization over engines, transmissions, and hybrids (necessary for improving propulsion system efficiency and performance). It provides examples for developing control-oriented...



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