



Introduction to Hybrid Vehicle System Modeling and Control

Wei Liu

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Introduction to Hybrid Vehicle System Modeling and Control Wei Liu

This is an engineering reference book on hybrid vehicle system analysis and design, an outgrowth of the author's substantial work in research, development and production at the National Research Council Canada, Azure Dynamics and now General Motors. It is an irreplaceable tool for helping engineers develop algorithms and gain a thorough understanding of hybrid vehicle systems. This book covers all the major aspects of hybrid vehicle modeling, control, simulation, performance analysis and preliminary design. It not only systemically provides the basic knowledge of hybrid vehicle system configuration and main components, but also details their characteristics and mathematic models.

- Provides valuable technical expertise necessary for building hybrid vehicle system and analyzing performance via drivability, fuel economy and emissions
- Built from the author's industry experience at major vehicle companies including General Motors and Azure Dynamics Inc.
- Offers algorithm implementations and figures/examples extracted from actual practice systems
- Suitable for a training course on hybrid vehicle system development with supplemental materials

An essential resource enabling hybrid development and design engineers to understand the hybrid vehicle systems necessary for control algorithm design and developments.

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