



Hybrid Electric Vehicles: Principles and Applications with Practical Perspectives

By Chris Mi, M. Abul Masrur, David Wenzhong Gao

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Modern Hybrid Electric Vehicles provides vital guidance to help a new generation of engineers master the principles of and further advance hybrid vehicle technology. The authors address purely electric, hybrid electric, plug-in hybrid electric, hybrid hydraulic, fuel cell, and off-road hybrid vehicle systems. They focus on the power and propulsion systems for these vehicles, including issues related to power and energy management. They concentrate on material that is not readily available in other hybrid electric vehicle (HEV) books such as design examples for hybrid vehicles, and cover new developments in the field including electronic CVT, plug-in hybrid, and new power converters and controls.

- Covers hybrid vs. pure electric, HEV system architecture (including plug-in and hydraulic), off-road and other industrial utility vehicles, non-ground-vehicle applications like ships, locomotives, aircrafts, system reliability, EMC, storage technologies, vehicular power and energy management, diagnostics and prognostics, and electromechanical vibration issues.
- Contains core fundamentals and principles of modern hybrid vehicles at component level and system level.
- Provides graduate students and field engineers with a text suitable for classroom teaching or self-study.

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Editorial Review

From the Back Cover

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- Provides pedagogical features including problems indicating specific design situations, home work problems, and computer simulation case studies in MATLAB® housed on an accompanying website.

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