



# Hybrid Electric Vehicle Design and Control: Intelligent Omnidirectional Hybrids

*Yangsheng Xu, Jingyu Yan, Huihuan Qian, Tin Lun Lam*

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## Build state-of-the-art intelligent omnidirectional HEVs

Engineer high-performance, low-emission automobiles by overcoming traditional obstacles and efficiently harnessing energy from multiple sources. *Hybrid Electric Vehicle Design and Control* features complete coverage of all electrical, mechanical, and software components. Find out how to develop fast-charging battery systems, efficiently manage power, implement independent steering and force control, and enhance driving stability and controllability. This comprehensive guide offers detailed modeling, testing, and tuning techniques and provides an overview of emerging developments in hybrid technologies.

### Coverage includes:

- 4WIS and 4WID hardware and software
- Hybrid vehicle design structures
- Zero-radius turning and lateral parking
- Steer-by-wire and extended steering
- Behavior-based and zero-radius steering
- Traction force distribution and stability
- Battery, energy, and power management systems
- Cell equalization and fast-charging control
- MPC, load forecasting, and neural network classification
- Best performance techniques

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