



Electric and Hybrid Vehicles: Design Fundamentals

Iqbal Husain

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With advances driven by pressure from governments, environmental activists, and its associated industries, the subject of electric and hybrid vehicles is becoming increasingly important. Trends clearly suggest that we must educate the engineers of today and tomorrow in the technical details of these vehicles. While there are many books that provide narrative descriptions of electric and hybrid vehicle components, none cover the technical aspects from a mathematically derived, design point of view, and none serve well as a textbook.

Electric and Hybrid Vehicles: Design Fundamentals presents a comprehensive, systems-level perspective of these vehicles that strikes an outstanding balance between technical details, design equations, numerical examples, and case studies. Starting with some historic background, the author describes the system components, the laws of physics governing vehicle motion, the mathematical relationships within and between the components, energy sources, and designing components to meet the complete vehicle specifications.

As this text illustrates, the electric vehicle is an excellent example of electro-mechanical and electro-chemical systems, one that is technically challenging as well as highly motivating to engineering students. The material presented is designed to be covered comfortably in a one-semester course. Its multidisciplinary nature and systems approach makes Electric and Hybrid Vehicles ideal for teaching electrical, mechanical, and chemical engineers all in one course.

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