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andPlug-In Hybrid Electric Vehicles; 1. Introduction; 2. Background and previous research; 3. Formation of GHG emissions from EV fuel cycles; 4. Estimates of GHG emissions from EV fuel cycles; 5. Magnitude of possible GHG reductions-scaling up the EV industry; 6. Key uncertainties and areas for further research; 7. Conclusions; Acknowledgments; References; Appendix; Chapter 6. Analysis of Design Tradeoffs for Plug-in Hybrid Vehicles; 1. Introduction
2. Methods for studying PHEV design3. PHEV subsystem description and tradeoff analysis; 4. Case studies; 5. Concluding remarks; References; Chapter 7. Evaluation of Energy Consumption, Emissions, and Costs of Plug-inHybrid Vehicles; 1. Introduction; 2. Factors affecting plug-in hybrid fuel consumption and emissions; 3. SAE J1711 recommended practice; 4. Methodology; 5. United States, Europe, and Japan analysis; 6. Conclusions; Acknowledgments; Nomenclature; References; Chapter 8. Improving Petroleum Displacement Potential of PHEVs Using EnhancedCharging Scenarios; 1. Introduction; 2. Approach 3. Results4. Conclusions; Acknowledgments; References; Chapter 9. Fuel Cell Electric Vehicles, Battery Electric Vehicles, and their Impact onEnergy Storage Technologies: An Overview; 1. Introduction; 2. The boundary conditions for automotive technology development; 3. Fuel cell electric and battery electric vehicles - two competing concepts?; 4. Fuel cell electric vehicles; 5. Extended-range electric vehicles; 6. Infrastructure issues; 7. Conclusions; Acknowledgements; List of abbreviations; References; Chapter 10. On the Road Performance Simulation of Battery, Hydrogen, andHybrid Cars
1. Introduction

Sommario/riassunto

This multi-author, 670-page handbook provides information on alternative vehicular power systems, encompassing advances in the rapidly evolving battery, hybrid and fuel cell technology domains. Vehicles based on these technologies are described in terms of performance, fuel economy, environmental impact, energy sources and costs, and are extensively compared and contrasted to conventional vehicles.For the most advanced concepts in development (fuel cell and long-range electric vehicles), the issue of recharging infrastructure is addressed, as are case studies of alternative vehicles propose