Propulsion Systems for Hybrid Vehicles. Energy Engineering

Description: The automotive industry is waking up to the fact that hybrid electric vehicles could provide an answer to the ever-increasing need for lower-polluting and more fuel-efficient forms of personal transport. This is the first book to give comprehensive coverage of all aspects of the hybrid vehicle design, from its power plant and energy storage systems, to supporting chassis subsystems necessary for realising hybrid modes of operation. Key topics covered include hybrid propulsion system architectures, propulsion system sizing, electric traction system sizing and design, loss mechanisms, system simulation and vehicle certification. Offering in-depth coverage of hybrid propulsion topics, energy storage systems and modelling, and supporting electrical systems, this book will be an invaluable resource for practising engineers and managers involved in all aspects of hybrid vehicle development, modelling, simulation and testing. It will also be of interest to postgraduate students in the field.

Contents:

Chapter 1: Hybrid vehicles
Chapter 2: Hybrid architectures
Chapter 3: Hybrid power plant specifications
Chapter 4: Sizing the drive system
Chapter 5: Electric drive system technologies
Chapter 6: Power electronics for ac drives
Chapter 7: Drive system control
Chapter 8: Drive system efficiency
Chapter 9: Hybrid vehicle characterisation
Chapter 10: Energy storage technologies
Chapter 11: Hybrid vehicle test and validation

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