

Through the analysis of the relevant literature this paper aims to provide a comprehensive discussion that covers the energy management of the whole electric vehicle in ...

The energy management strategy (EMS) is a critical technology for pure electric vehicles equipped with hybrid energy storage systems. This study addresses the challenges of ...

Choice of hybrid electric vehicles (HEVs) in transportation systems is becoming more prominent for optimized energy consumption. HEVs are attaining tremendous ...

In this chapter, battery and ultra-capacitors are modeled as a hybrid energy storage system of plug-in hybrid electric vehicle and they have been simulated using MATLAB ...

The battery supercapacitor hybrid energy storage system (HESS) based electric vehicles (EVs) require an efficient online energy management system (EMS) to enhance the ...

This paper targets the interdependence between sizing and power split optimization of hybrid energy storage systems (HESS) in electric vehicles (EV). In particular, a ...

However, the effectiveness of the chargers on the power-quality issues is missing. In another work [29], the integration of flywheel energy storage system with an electric vehicle ...

Abstract This study aims to develop a hybrid energy storage system (HESS), targeting a commercialised Hybrid Electric Vehicle model (Hyundai Sonata), that consists of ...

The electric vehicle (EV) technology addresses the issue of the reduction of carbon and greenhouse gas emissions. The concept of EVs focuses on the utilization of ...

Electric vehicles (EVs), powered by electric motors and rechargeable batteries, are revolutionizing transportation. Hybrid electric vehicles (HEVs) utilize energy recuperation during braking to ...

The development of energy management strategy (EMS), which considers how power is distributed between the battery and ultracapacitor, can reduce the electric vehicle's ...

The increasing demand for sustainable transportation in India emphasizes the need of light-electric vehicles (LEVs) equipped with hybrid energy storage systems (HESS). ...

Abstract This paper proposes a novel energy distribution optimization method of hybrid energy storage system

(HESS) and its improved semi-active topology for electric ...

In this paper, the efficiency characteristics of battery, super capacitor (SC), direct current (DC)-DC converter and electric motor in a hybrid power system of an electric vehicle ...

With the standing increment of fuel vehicles, the use of fossil fuel in vehicles has caused the social extensive concern due to environment degradation and limited energy ...

The drivetrain of power-split HEV (Fig. 18.1) is a combination of series and parallel HEV configurations, and it has advantages of both the series and parallel drivetrains. ...

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