

Lithium ion battery is one of the most important research achievements in high-tech field in recent 20 years, representing the most advanced level of chemical power development. The system has the remarkable advantages of high specific energy, long cycle life and environmental friendliness . It has become the main supporting power supply of ...

To validate the effectiveness of the PSO-ELM algorithm, NASA lithium-ion battery test data were utilized to compare SOH estimation results across the PSO-ELM, ELM, LSSVM, PSO-GPR, LSTM, and PSO-LSTM methods. ... In Proceedings of the 2022 IEEE 11th Global Conference on Consumer Electronics (GCCE), Osaka, Japan, 18-21 October 2022; ...

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The performance of a battery system is critical to the development of electric vehicles (EVs). Battery capacity decays with the use of EVs and an advanced onboard battery management system is required to estimate battery capacity accurately. However, the acquired capacity suffers from poor accuracy caused by the inadequate utilization of battery information ...

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The lithium-ion battery has become the optimal alternative for the application in automotive and stationary energy storage systems with the advantages of high energy and power density, low self-discharge rate, and long cycle life [1].To guarantee security and durability in battery system operation, an efficient battery management system (BMS) is imperative.

The lithium-ion battery is the power source of an electric vehicle, so it is of great significance to estimate the state of charge (SOC) of lithium-ion batteries accurately to ensure vehicle safety. To improve the accuracy of the parameters of the equivalent circuit model for batteries, a second-order RC model for ternary Li-ion batteries is established, and the model ...

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2.1. Battery Modeling. The precision of the parameter identification of the lithium-ion battery model has a significant bearing on the accuracy of SOC calculation via the equivalent circuit approach [].The Thevenin model [], second-order RC model [], and Rint model [] are now the most popular models.The accuracy of the model is enhanced with increasing RC order, but ...

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Shandong huison Electronic Technology Co., Ltd., as a high-tech enterprise of lithium battery in China,mainly engaged in the R& D, manufacturing, Sales and Service of Lithium-ion battery. Products Widely used in intelligent manufacturing, Residential storage, Industrial and Commercial energy storage, Portable Power Station, 5G batteries, Power ...

Lithium-ion batteries have increasingly become a primary energy source in Electric Vehicles (EVs), power grid energy storage, aerospace, and other fields. Accurate State of Charge (SOC) estimation is crucial for the safe and efficient operation of lithium batteries. This paper proposes a physical-data fusion framework for accurate SOC estimation of Lithium-ion batteries. First, a ...

Battery management system needs to detect battery faults and isolate fault sources in time for safer battery use. This paper proposes a fault diagnosis method of the lithium-ion power battery current/voltage sensor based on a fusion diagnosis factor. The proposed fusion diagnosis factor can accurately and quickly detect sensor faults and isolate fault sources by selecting different ...

Benefits of POWACHARGE Lithium battery. Lithium ion battery is one of the most important research achievements in high-tech field in recent 20 years, representing the most advanced level of chemical power development. The system has the remarkable advantages of high specific energy, long cycle life and environmental friendliness .

SHANDONG HUISON ELECTRONICS TECHNOLOGY CO.,LTD will attend the 2023 World Battery Expo Shandong Huison Electronic Technology Co., Ltd. is committed to the R& D, production, and sales of lithium battery energy storage products, providing users with leading comprehensive solutions for lithium battery optical storage and charging integrated systems. In ...



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