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Title: Battery pack box structure design

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While the battery cells themselves get a lot of attention, the enclosure - the box that holds everything together - is just as critical. It's more than just a container; it's a vital ...

In order to improve the lightweight level of new energy vehicle battery box assembly and its design efficiency and precision, a design scheme of sheet molding compound (SMC) ...

Explore the latest in EV battery pack design, including structure, safety, thermal management, and integration trends driving electric vehicle performance.

This paper takes a BEV as the target model and optimizes the lightweight design of the battery pack box and surrounding structural parts to achieve the goal of improving vehicle crash safety ...

Explore the latest in EV battery pack design, including structure, safety, thermal management, and integration trends driving ...

Provide the ability to Isolate all High Voltage exiting the pack. Provide a structure that contains the cells, relays, fuse and BPS. Here we see the compression of the copper tabs using Aluminum ...

In this work, the structure of the new energy vehicle is optimized by a finite element model, and the side crashworthiness applied to the electric vehicle is analyzed by means of a ...

Firstly, structural improvement design and light alloy material replacement for high-strength steel battery pack of a pure electric vehicle were carried out, which improved the safety and heat ...

Structures had large volume and complex structures. By establishing models in virtual prototypes and simulating and analyzing the performance parameters of the battery pack box structure.

The final discussion analyzes the correlation between the changes in the design methods and the increasing demand for battery packs. The outcome of this paper allows the ...

The required battery pack is a big, heavy, and expensive component to be located, managed, climatized, maintained, and protected. This paper develops some engineering analyses and ...

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