

Title: Pack battery impact on the ground

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The investigations of ground impact show that whether the battery pack is at the lowest point has a great impact on the safety under the Bottom scraping condition, while the material of the Bottom guard ...

To analyze the ground impact process of the battery pack from the view of the whole vehicle level, the coupling model of multi-rigid bodies and finite element model is built for the whole ...

Veryst simulated the impact performance of an external battery pack with complex materials and geometries, and provided design recommendations to increase survivability.

This paper presents a comprehensive study of the ground impact on lithium-ion battery packs in electric vehicles. Realistic system-level test procedures and conditions are proposed and the battery case ...

The present paper documents a comprehensive study on the ground impact of battery packs, based on a vast experience of the investigating team in constitutive modeling, crashworthiness and fracture.

This work focuses on the numerical analysis of hierarchically built hybrid composite structures intended for electric vehicle battery casings. Using finite element analysis (FEA), the ...

Under two typical operating conditions of the bottom scraping and the bottom impacting, the influence of different obstacle heights, positions, and vehicle velocities on the impact load ...

The present paper documents a comprehensive study on the ground impact of lithium-ion battery packs in electric vehicles. With the purpose of developing generic methodology, a hypothetic global finite ...

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