

We compare the effects of virtual and physical electrical connection simulation methods on battery electrical and thermal behavior under different conditions. This contributes ...

This paper presents the modeling and simulation of a hybrid energy storage system combining a lithium-ion battery and a supercapacitor, managed through an intelligent energy management ...

Abstract This article gives an overview of the Electric Energy Storage (EES) library, which is proposed for inclusion in the Modelica Standard Library. The library contains models with ...

Electric-to-thermal energy storage has the advantages of independence from geographical constraints, lower material costs, and technical maturity. These qualities make it ...

The electrical power systems of next-generation commercial airline aircraft are undergoing significant development. Their main characteristic consists in the replacement of hydraulic, ...

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