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Title: Supercapacitor model parameters

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Calculating the output of a multi-cell supercapacitor based on the output for a single cell is more efficient than modelling the equations for each cell separately. The figure shows the equivalent ...

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The supercapacitor model is simulated in this study by using MATLAB/Simulink, and the efficiency of the model is improved by verifying and evaluating the parameters.

The study focuses on parameterizing the Zubieta model for supercapacitors, which involves identifying seven parameters using a hybrid metaheuristic gradient-based ...

This example shows how to identify the parameters of a supercapacitor. Instead of collecting voltage and current waveforms from a real supercapacitor, this example generates voltage ...

The paper introduces a straightforward procedure for estimating the electrical parameters of a simple, but reasonably accurate, two-branches model of a supercapacitor (SC).

This model is suitable for applications where the energy stored in the capacitor is of primary importance and the transient response can be neglected. 3, the simplified ...

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This article presents a new method for obtaining the electrical parameters of a supercapacitor (SC) modeled as a constant resistor in ...

This article presents a new method for obtaining the electrical parameters of a supercapacitor (SC) modeled as a constant resistor in series with a capacitance that linearly ...

To provide an exact simulation for the supercapacitor behavior, these parameters have to be identified properly. Therefore, a new identification method based on the blade ...

ABSTRACT The paper introduces a straightforward procedure for estimating the electrical parameters of a simple, but reasonably accurate, two-branches model of a supercapacitor (SC).

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