

The proposed method solves the short-range problem which is related to the battery discharge. The direct torque control switching algorithm is modified to recover electrical ...

In this article we will control the energy storage inertial noted inertial energy storage system to partner with a wind energy conversion system that aims to improve the power quality transit ...

The vehicle has a primary fuel cell resource, a supercapacitor, and lithium-ion battery energy storage banks, where each source is connected to a special converter. The obtained hybrid system allows the vehicle to enhance ...

**A B S T R A C T** To counteract a potential reduction in grid stability caused by a rapidly growing share of intermittent renewable energy sources within our electrical grids, large scale ...

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This paper examines the modeling and speed-based control of an IM-based flywheel energy storage system (FESS) for integration with a variable wind generation system (VSWG) feeding ...

DTC versus FOC of an IM-based flywheel energy storage system associated to a variable-speed wind generator. In: Proc. of Electrimacs, Hammamet, Tunisia, CD-ROM.

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First step, a model of inertial energy storage system (flywheel + asynchronous machine) is presented, then two control methods are proposed: the direct torque control (DTC and DTC ...

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