

Comprehensive all-electric propulsion system with energy storage

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This paper presents an optimized multi-timescale energy management strategy (MTEMS) for a novel all-electric aircraft (AEA) power system unit, which consists of a hybrid energy storage ...

This paper systematically defines the problem of AES operations and management regarding ship design and planning, navigation, and energy refuelling. It also presents a ...

In this paper, through the MATLAB simulation, optimization of capacity is calculated and charge-discharge control strategy of composite energy is analyzed. The results ...

Therefore, this paper provides a comprehensive review and discussion of the configuration design and parameter optimization methods for electrified propulsion systems.

Hybrid-electric propulsion systems with series, parallel, or turboelectric configurations, exhibit enhanced emission reduction and energy management, particularly ...

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AESs are equipped with a fully electrified propulsion system, making their navigation more flexible than that of conventional ships.

This paper presents review of recent studies of electrification or hybridisation, different aspects of using the

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marine BESS and classes of hybrid propulsion vessels. It also ...

Therefore, this paper introduces the comprehensive design of DC shipboard power system for pure electric propulsion ship based on battery energy storage system (BESS).

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