Design of power generation system for container ship

In this study, based on actual operation data, the load requirements for each operation mode were analyzed, and a diesel-generator-based power system was designed. We present a generator capacity ...

In this study, we established an analysis methodology by conducting a comparative validation between CFD calculations and experimental data. The methodology is expected to play a significant role in ...

Electrical power in ships is usually produced by a synchronous generator. Given the essential nature of electrical power onboard ship, several means are used to assure its continuous availability.

Out at sea, the ship must generate, regulate, protect, and--when things go wrong-- restart its own electricity. This article is a complete, practical tour of the marine power generation system.

Recommendations are provided for future work to prepare power system designers for future modular, flexible, and adaptable ship designs.

Discover the latest trends and technologies in power generation for ship design and construction, ensuring efficient and reliable operations.

This paper introduces an optimal design and control approach for a hybrid ship energy management system under various sea conditions by employing model predictive control. Ship reliability and ...

Contemporary configurations of ships" electric power stations are presented and discussed. Cargo capacity expressed in 20-foot equivalent units (TEU) was identified as the main predictor of...

Studying marine engineering requires basic knowledge of the physical principles that govern the operation of systems, machinery and components. In this book thermodynamics, fluid dynamics, heat transfer and ...

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In this article, the current progresses made on ship power systems integrated with solar energy, wind energy and fuel cells have been comprehensively reviewed.

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