

# Design of propulsion and electric power generation systems imarest 2002

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Design of Propulsion and Electric Power Generation Systems [Woud, Hans Klein] on Amazon . \*FREE\* shipping on qualifying offers. Design of Propulsion and Electric Power Generation Systems. Skip to main content . ... 2002. ISBN-10. 1902536479. ISBN-13. 978-1902536477. See all details.

Within a typical electric propulsion system, three-phase alternating current (AC) diesel-generator sets feed a fixed frequency high voltage electrical bus that, in turn, feeds the electrical propulsion motor and other consumers. In most cases, there is a transformer after this bus and an electric propulsion motor drive.

Understand systems trade offs in developing preliminary power system design for a vessel. Textbooks. Woud, Hans Klein, and Douwe Stapersma. Design of Propulsion and Electric Power Generation Systems. London, UK: IMarEST, (Institute of Marine Engineering, Science and Technology), 2002. ISBN: 9781902536477. Other References

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Revised edition 2019 Published: by IMarEST, sold by the Marine Society bookshop for £75.00. The book sets out the fundamental principles of marine engineering and then discusses propulsion and electric power, energy conversion, power plant concepts, main machinery, diesel engines, gas turbines, electrical components, propellers, matching propulsion engine to ...

functions for control and monitoring of the propulsion system; an electric power management system (EPMS) for generator set operation; ship systems operation and battle damage control. MTU embraced a long list of responsibilities as the ...

This book provides information on the design of propulsion and electric power generation systems, including

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the underlying science, focusing primarily on marine systems engineering. It is the ideal study guide for university and high school students as well as a source of reference for marine engineers for the daily application of physical ...

Design of propulsion and electric power generation systems. Authors. Douwe Stapersma; Hans Klein Woud; Science and Technology (United Kingdom) Institute of Marine Engineering; Publication date 1 January 2002. Publisher London (United Kingdom) : IMarEST. Abstract Includes bibliographical references and indexSIGLEAvailable from British Library ...

MAIN ELECTRICAL POWER AND PROPULSION SYSTEMS LIEUTENANT-COMMANDER T. M. DANNATT, MSC, CENG, MIMeCHE, RN (formerly of Sea Systems Controllerate, Bath) ABSTRACT The Type 23 machinery design is such that the main electrical power and the electric motor propulsion systems are inextricably linked. Power for both is provided by the same ...

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The relation between propulsion concepts and power generation is explained and elaborated in energy flow diagrams. A general procedure for analyzing propulsion and power generation concepts is presented, using energy conversion effectiveness and based upon a selection of operational modes and a mission profile reflecting the use of those modes.

The IMarEST produces a wide range of technical books from across the marine engineering, science and technology disciplines. ... Design of Propulsion and Electric Power Generation Systems. This publication is a guide to the design of propulsion and electric power generation systems. It concentrates primarily on marine systems engineering.

Design of Propulsion and Electric Power Generation Systems : Woud, Hans Klein, Stapersma, Douwe: Amazon : Books. ... Design of Propulsion and Electric Power Generation Systems Paperback - Import, ... 4 October 2002. Language. English. Print length. 524 pages.

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Woud (Author), Douwe Stapersma (Author), Institute of Marine Engineering, Science and Technology (Issuing body) ... 2002 by IMarEST.

Design of Propulsion and Electric Power Generation Systems gives an overview of the main components of the propulsion and electric power plant and their power requirements. Based on a fundamental understanding of all types of energy conversion, the present and future architecture of power plants on board ships is then presented.

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