

Advanced Electrotechnology for Marine Engineers: A Comprehensive Guide to Electrical Systems on Ships

Electrical systems are essential to the safe and efficient operation of ships. They provide power for propulsion, lighting, navigation, communication, and other vital systems. Marine engineers must have a thorough understanding of electrical systems in order to maintain and troubleshoot them effectively.

Advanced Electrotechnology for Marine Engineers provides a comprehensive overview of electrical systems on ships, covering both the theoretical and practical aspects. It is an essential resource for marine engineers who want to understand and maintain the electrical systems on their vessels.

Advanced Electrotechnology for Marine Engineers is divided into four parts:



Reeds Vol 7: Advanced Electrotechnology for Marine Engineers (Reeds Marine Engineering and Technology

Series) by Edmund G.R. Kraal

★★★★★ 5 out of 5

Language : English
File size : 37554 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 544 pages



- Part 1: Fundamentals of Electrical Engineering
- Part 2: Electrical Systems on Ships
- Part 3: Electrical Power Generation and Distribution
- Part 4: Electrical Control and Automation

Part 1: Fundamentals of Electrical Engineering

This part covers the basic principles of electrical engineering, including:

- **Ohm's law**
- **Kirchhoff's laws**
- **AC and DC circuits**
- **Transformers**
- **Motors**
- **Generators**

Part 2: Electrical Systems on Ships

This part describes the different electrical systems found on ships, including:

- **Power generation systems**
- **Distribution systems**

- **Control systems**
- **Automation systems**
- **Safety systems**

Part 3: Electrical Power Generation and Distribution

This part covers the principles of electrical power generation and distribution on ships, including:

- **Power plant operation**
- **Electrical distribution systems**
- **Load management**
- **Power quality**

Part 4: Electrical Control and Automation

This part covers the principles of electrical control and automation on ships, including:

- **Programmable logic controllers (PLCs)**
- **Distributed control systems (DCSs)**
- **Supervisory control and data acquisition (SCADA) systems**

Advanced Electrotechnology for Marine Engineers is packed with features that make it an essential resource for marine engineers, including:

- **Over 500 pages of in-depth coverage**

- **Hundreds of illustrations and diagrams**
- **Numerous worked examples**
- **Chapter summaries and review questions**
- **A glossary of terms**

By studying Advanced Electrotechnology for Marine Engineers, you will gain a thorough understanding of the electrical systems on your vessel. This knowledge will enable you to:

- **Maintain and troubleshoot electrical systems effectively**
- **Improve the safety and efficiency of your vessel's operation**
- **Stay up-to-date on the latest advances in marine electrical technology**

Advanced Electrotechnology for Marine Engineers is the most comprehensive and up-to-date resource available on the electrical systems on ships. It is an essential tool for marine engineers who want to understand and maintain the electrical systems on their vessels.

Order your copy today!



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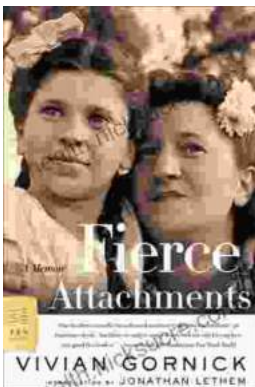
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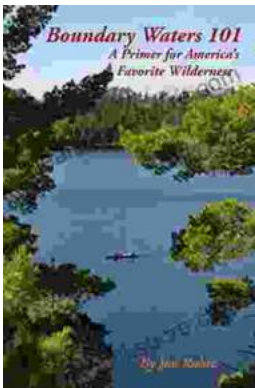
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