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message of this book this book provides clear and concise guidance for marine engineers preparing for professional certificate of competency oral examinations it also offers a

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this book provides comprehensive coverage of the basic theoretical work required by marine engineering officers and electrotechnical officers etos putting into place key fundamental building blocks and topics in electrotechnology before progressing to more complex topics and electromagnetic systems volume 6 covers essential basic electrotechnology principles for the 21st century including the fundamentals of electron theory ac and dc current circuits electromagnetism and electrochemistry providing a firm foundation for complementary volume 7 in the marine engineering series to discuss emergent technology such as image intensifiers the transistor increased maritime use of leds and references to modern ship systems such as gps ecdis radar and ais this new edition has been thoroughly updated in line with guidelines best practice and the many technological developments that have taken place over the past 5 years since the previous edition published as well as improvements and updates to the technical diagrams

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