



Reeds Vol 10: Instrumentation and Control Systems (Reeds Marine Engineering and Technology Series)

By Gordon Boyd, Leslie Jackson

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This is a fully revised, new edition on the topic of instrumentation and control systems and their application to marine engineering for professional trainees studying Merchant Navy Marine Engineering Certificates of Competency (CoC) as well as Electrical/Marine Engineering undergraduate students. Providing generic technical and practical descriptions of the operation of instrumentation and control devices and systems, this book also contains mathematic analysis where appropriate.

Addressing this subject area, the domain of Instrumentation Engineers/Technicians as well as Control Engineers, and covering established processes and protocols and extensive developing technology, this textbook is written with the marine engineer in mind, particularly those studying Engineering Knowledge. The content ranges from simple measurement devices, through signal conditioning and digitisation to highly sophisticated automated control and instrumentation systems.

It also includes a brand new section on electrical equipment in hazardous areas detailing hazards, gas groups, temperature classifications and types of protection including increased and intrinsic safety and encapsulation, and up-to-date material on the new generation of Liquefied Natural Gas carriers, SMART sensors and protocols, as well as computer based systems.

This text is reinforced throughout with worked examples and self-study questions.

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Editorial Review

About the Author

Gordon Boyd is a Chartered Electrical Engineer and Senior Lecturer at South Tyneside College, the largest Marine Engineering College in the UK and well recognised internationally as being a world leader in electrical aspects of Marine Engineering education and training. He is also a Consultant for Electric Works developing distance-learning packages and computer-based learning training for Marine Engineers and ETOs, and has extensive sea-going experience.

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