



Radar and ARPA Manual, Third Edition: Radar, AIS and Target Tracking for Marine Radar Users

By Alan G. Bole, Alan D. Wall, Andy Norris

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This fully revised new edition covers the complete radar/ARPA installation and serves as the most comprehensive and up-to-date reference on equipment and techniques for radar observers using older and newer systems alike. Suitable for use as a professional reference or as a training text, the book covers all aspects of radar, ARPA and integrated bridge systems technology (including AIS, ECDIS and GNSS) and their role in shipboard operations. It is a valuable resource for larger vessels and also covers the needs of leisure and amateur sailors for whom this technology is now accessible.

Radar and ARPA Manual provides essential information for professional mariners, including those on training courses for electronic navigation systems and professional certificates internationally. Reference is made throughout to IMO (International Maritime Organization) Performance Standards, the role of radar in navigation and in collision avoidance, and to international professional and amateur marine operations qualifications.

- The most up-to-date book available, with comprehensive treatment of modern radar and ARPA systems and ECDIS (Electronic Chart Display & Information Systems)
- Full coverage of IMO performance standards relating to radar and navigational technology on new and established vessels
- Covers best practice use of equipment as well as underlying principles, with essential mathematics and complicated concepts illustrated through the use of clear illustrations

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Editorial Review

Review

"...There is no doubt in my mind that this book has had more influence on radar specification and operational practice than any other." – *Seaways*

From the Back Cover

Published comments relating to previous editions

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- Covers best practice use of equipment as well as underlying principles, with essential mathematics and complicated concepts illustrated through the use of numerous clear illustrations.
- Includes excerpts from all relevant International Maritime Organization (IMO) safety and performance standards relating to radar and navigational technology on new and established vessels.
- Updated to reflect the trend away from independent to integrated equipment and cover the inter-relationship between radar/ARPA, AIS, GPS and ECDIS.

Radar and ARPA Manual provides essential information for professional mariners and seagoing marine engineers, including those undertaking electronic navigation system courses and marine operations qualifications internationally.

This fully revised new edition serves as the most comprehensive reference on equipment and techniques for radar observers using older and newer systems. Suitable for use both as a professional reference and a training text, the book has been updated to reflect the trend away from independent to integrated equipment and now covers the inter-relationship between radar/ARPA, AIS, GPS and ECDIS.

Comprising all aspects of radar, from basic principles through to target detection, operational controls, navigation techniques and collision avoidance, ***Radar and ARPA Manual*** is a practical, tried-and-tested guide to radar, ARPA and integrated bridge systems and their role in marine navigation.

About the Author

After 10 years at sea, Alan Bole qualified as Extra Master Mariner. In 1965, he was appointed Lecturer in Charge of the Radar School at the Liverpool Regional College of Technology. In 1973, Alan was appointed Principal Lecturer in Radar Simulation at the now Liverpool Polytechnic, and in 1979 he was elected a Fellow of the Royal Institute of Navigation and a Fellow of the Nautical Institute. Since his retirement in 1988, Alan has been focussing on consultancies pertaining to Radar, Navigation and Simulation Worldwide. He also supervises degrees to PhD level through Liverpool John Moore's University. He is a Royal Yachting Association Yachtmaster and Examiner to all levels including 'Ocean', and a Co-author of a number of nautical books and publications.

Dr. Alan Wall worked for 14 years as a deck officer on oil tankers with Mobil Shipping Company before

completing a PhD in Operational Research at Lancaster University. He then joined Liverpool John Moores University as a nautical lecturer and is now Subject Head with responsibility for marine professional training at LJMU. For 20 years, he has been extensively involved in most aspects of the training and education of seafarers including the provision and training of seafarers using of marine bridge simulators and ship radar equipment. His research and consultancy has involved the use of marine radar and operational research.

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