



Radar and ARPA Manual, Second Edition: Radar and Target Tracking for Professional Mariners, Yachtsmen and Users of Marine Radar

By Andy Norris, Alan D. Wall, Alan G. Bole, W O Dineley

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Radar and ARPA (Automatic Radar Plotting Aids) are standard systems on all commercial vessels and are widely used in the leisure maritime sector. This fully revised new edition covers the complete radar/ARPA installation, including AIS (Automatic Identification System) and ECDIS (Electronic Chart Display & Information Systems). It 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 both as a professional user's reference and as a training text, it covers all aspects of radar and ARPA technology, its use and its role in shipboard operations. Reference is made throughout to IMO (International Maritime Organisation) 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 full coverage of modern radar and ARPA systems, integrated electronic bridge systems and the 2004 IMO Radar regulations
- * The industry authority text, widely-used
- * Meets professional, educational and leisure maritime needs, covering both professional and amateur certificate requirements

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Bibliography

- Sales Rank: #3316825 in Books
- Brand: Brand: Butterworth-Heinemann
- Published on: 2005-05-05
- Released on: 2005-06-27
- Original language: English
- Number of items: 1
- Dimensions: 9.69" h x 1.28" w x 7.44" l, 2.41 pounds
- Binding: Paperback
- 544 pages

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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

"Sincere congratulations to the authors on this magnificent and definitive book on radar and ARPA." -WMU Journal of Maritime Affairs, 2006, Vol. 5

"Provides essential information for mariners on training courses for electronic navigation systems and professional certificates internationally."

-Nautical Magazine, 2005

"Covers the complete radar/ARPA installation and serves as a comprehensive and up-to-date reference on equipment and techniques for radar observers using older and newer systems alike."

-Sea Technology, October 2005

From the Back Cover

Radar systems are fitted on all commercial vessels, and are widely used in the leisure maritime sector as well as vessel traffic services (VTS). They are frequently used in conjunction with an Automatic Target Tracking Device, traditionally known as the ARPA (Automatic Radar Plotting Aid). 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 both as a professional reference and 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.

* The most up-to-date book available, with full coverage of modern radar and ARPA systems

* Ideal for professional, educational and leisure maritime needs

* Covers both professional and amateur certificate requirements

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

About the Author

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.

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.

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