



# Target Detection by Marine Radar (IEE Radar, Sonar Navigation and Avionics) (Electromagnetics and Radar)

By Jon Briggs

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## Target Detection by Marine Radar (IEE Radar, Sonar Navigation and Avionics) (Electromagnetics and Radar) By Jon Briggs

Radar is a legal necessity for the safe navigation of merchant ships, and within vessel traffic services is indispensable to the operation of major ports and harbours. Target Detection by Marine Radar concentrates solely on civil marine operations and explains how marine surveillance radars detect their targets. The book is fully illustrated and contains worked examples to help the reader understand the principles underlying radar operation and to quantify the importance of factors such as the technical features of specific equipment, the weather, target reflection properties, and the ability of the operator. The precision with which targets are positioned on the radar screen and with which their progress is tracked or predicted depends on how definitely they have been detected, therefore a whole chapter has been devoted to the issue of accuracy. The various international regulations governing marine radar are examined, a brief historical background is given to modern day practice and the book doses with a discussion of the ways in which marine radar may develop to meet future challenges.

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### **Editorial Review**

#### **About the Author**

John Briggs was employed by GEC-Marconi in Leicester for almost 20 years, where he was responsible for the design, trialling, manufacture and international marketing of civil marine navigation-aid racons. He currently takes on civil marine radar-related consultancy work for such clients as GEC-Marconi, Maritime and Coastguard Agency, Royal Ocean Racing, and the International Association of Lighthouse Authorities.

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