
1 Basic radar principles

1.1 Introduction

The word RADAR, is an acronym derived from the words *Radio Detection and Ranging*. In the United Kingdom it was initially referred to as *radio direction finding* (RDF) in order to preserve the secrecy of its ranging capability.

The scientist Heinrich Hertz, after whom the basic unit of frequency is named, demonstrated in 1886 that radio waves could be reflected from metallic objects. In 1905 a German engineer obtained a patent in several countries for a radio wave device capable of detecting ships, but it aroused little enthusiasm because of its very limited range. Marconi, delivering a lecture in 1922, drew attention to the work of Hertz and proposed in principle what we know today as marine radar. Although radar was used to determine the height of the ionosphere in the mid-1920s, it was not until 1935 that radar pulses were successfully used to detect and measure the range of an aircraft. In the 1930s there was much simultaneous but independent development of radar techniques in Britain, Germany, France and America. Radar first went to sea in a war-ship in 1937 and by 1939 considerable improvement in performance had been achieved. By 1944 naval radar had made an appearance on merchant ships and from about the end of the war the growth of civil marine radar began. Progressively it was refined to meet the needs of peacetime navigation and collision avoidance.

While the civil marine radars of today may, in size, appearance and versatility, differ markedly from their ancestors of the 1940s, the basic data that they offer,

namely target range and bearing, are determined by exploiting the same fundamental principles unveiled so long ago. An understanding of such principles is an essential starting point in any study of marine radar.

1.2 Principles of range measurement

1.2.1 The echo principle

An object (normally referred to as a target) is detected by the transmission of a pulse of radio energy and the subsequent reception of a fraction of such energy (the echo) which is reflected by the target in the direction of the transmitter. The phenomenon is analogous to the reflection of sound waves from land formations. If a blast is sounded on a ship's whistle, the energy travels outward and some of it may strike, for example, a cliff. The energy which is intercepted will be reflected by the cliff. If the reflected energy returns in the direction of the ship, and is of sufficient strength, it will be heard as an audible echo which, in duration and tone, resembles the original blast. In considering the echo principle the following points can usefully assist in a preliminary understanding of radar detection:

- (a) The echo is never as loud as the original blast.
- (b) The chance of detecting an echo depends on the loudness and duration of the original blast.
- (c) Short blasts are required if echoes from close targets are not to be drowned by the original blast.
- (d) A sufficiently long interval between blasts is required to allow time for echoes from distant targets to return.

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R Sandford



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Handbook of Defence Electronics and Optronics Anil K. Maini, 2018-03-26 Handbook of Defence Electronics and Optronics Anil K Maini Former Director Laser Science and Technology Centre India First complete reference on defence electronics and optronics Fundamentals Technologies and Systems This book provides a complete account of defence electronics and optronics The content is broadly divided into three categories topics specific to defence electronics topics relevant to defence optronics and topics that have both electronics and optronics counterparts The book covers each of the topics in their entirety from fundamentals to advanced concepts military systems in use and related technologies thereby leading the reader logically from the operational basics of military systems to involved technologies and battlefield deployment and applications Key features Covers fundamentals operational aspects involved technologies and application potential of a large cross section of military systems Discusses emerging technology trends and development and deployment status of next generation military systems wherever applicable in each category of military systems Amply illustrated with approximately 1000 diagrams and photographs and around 30 tables Includes salient features technologies and deployment aspects of hundreds of military systems including military radios ground and surveillance radars laser range finder and target designators night visions devices EW and EO jammers laser guided munitions and military communications equipment and satellites Handbook of Defence Electronics and Optronics is an essential guide for graduate students R D scientists engineers engaged in manufacturing defence equipment and professionals handling the operation and maintenance of these systems in the Armed Forces

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Aerospace Engineering e-Mega Reference Mike Tooley, Filippo De Florio, John Watkinson, Pini Gurfil, Howard D. Curtis, Antonio

Filippone, T.H.G. Megson, Michael V. Cook, P. W. Carpenter, E. L. Houghton, David Wyatt, Lloyd R. Jenkinson, Jim Marchman, 2009-03-23 A one stop Desk Reference for engineers involved in all aspects of aerospace this is a book that will not gather dust on the shelf It brings together the essential professional reference content from leading international contributors in the field Material covers a broad topic range from Structural Components of Aircraft Design and Airworthiness to Aerodynamics and Modelling A fully searchable Mega Reference Ebook providing all the essential material needed by Aerospace Engineers on a day to day basis Fundamentals key techniques engineering best practice and rules of thumb together in one quick reference Over 2 500 pages of reference material including over 1 500 pages not included in the print edition [Advanced Remote Sensing Technology for Covid-19 Monitoring and Forecasting](#) Maged Marghany, 2025-04-11 This book provides a groundbreaking exploration of satellite remote sensing s role in tracking the mobility and spread of COVID 19 focusing on its origin in Wuhan City It addresses the gap in research by employing advanced techniques like quantum image processing to analyze satellite data and differentiate between COVID 19 related deaths and other causes Additionally it explores conspiracy theories vaccine development through quantum mechanics and the use of quantum computing for detecting pandemic patterns The book also delves into the economic impact of COVID 19 offering a scientific response to geopolitical tensions and media accusations surrounding the pandemic s origins **Planar Microwave Sensors** Ferran Martín, Paris Véléz, Jonathan Muñoz-Enano, Lijuan Su, 2022-09-27 Comprehensive resource detailing the latest advances in microwave and wireless sensors implemented in planar technology Planar Microwave Sensors is an authoritative resource on the subject discussing the main relevant sensing strategies working principles and applications on the basis of the authors own experience and background while also highlighting the most relevant contributions to the topic reported by international research groups The authors provide an overview of planar microwave sensors grouped by chapters according to their working principle In each chapter the working principle is explained in detail and the specific sensor design strategies are discussed including validation examples at both simulation and experimental level The most suited applications in each case are also reported The necessary theory and analysis for sensor design are further provided with special emphasis on performance improvement i e sensitivity and resolution optimization dynamic range etc Lastly the work covers a number of applications from material characterization to biosensing including motion control sensors microfluidic sensors industrial sensors and more Sample topics covered in the work include Non resonant and resonant sensors reflective mode and transmission mode sensors single ended and differential sensors and contact and contactless sensors Design guidelines for sensor performance optimization and analytical methods to retrieve the variables of interest from the measured sensor responses Radiofrequency identification RFID sensor types prospective applications and materials technologies towards green sensors implementation Comparisons between different technologies for sensing and the advantages and limitations of microwave sensors particularly planar sensors Engineers and qualified professionals

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