
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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Brendan G. Carr



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