



Radar and Electronic Navigation

By G. J. Sonnenberg

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Radar and Electronic Navigation, Sixth Edition discusses radar in marine navigation, underwater navigational aids, direction finding, the Decca navigator system, and the Omega system. The book also describes the Loran system for position fixing, the navy navigation satellite system, and the global positioning system (GPS). It reviews the principles, operation, presentations, specifications, and uses of radar. It also describes GPS, a real time position-fixing system in three dimensions (longitude, latitude, altitude), plus velocity information with Universal Time Coordinated (UTC). It is accurate to 100 meters for general users and about 16 meters for U.S. and NATO users. GPS uses a constellation of 18 satellites encircling the Earth, and measures velocity by means of the Doppler effect. The book explains that GPS has three segments: the space segment, the control segment, and the user segment. The control segment has four monitoring stations while the user segment includes ground-based, marine, airborne or space platforms equipped with GPS devices. The book provides useful information for marine engineers, aviation designers, aeronautical engineers and operators, as well as other officers of sea-going vessels.

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