

Scattering Characteristics of Aerial and Ground Radar Objects

This book presents computations for various types of aerial and ground objects. It contains a brief explanation of the theoretical calculation methods used for obtaining scattering characteristics of these objects. It provides working examples for the analysis of electromagnetic wave scattering processes by different objects. Scattering Characteristics of Aerial and Ground Radar Objects is divided in two sections. The first section includes scattering characteristics for different aerial objects: aircrafts, helicopters, transport and passenger airplanes, unmanned aerial vehicles, and missiles. The second section contains data about scattering for many ground objects such as tanks, surface-to-air missile systems, ground radars, and other military objects. In total, the book contains actual data for 63 aerial objects (fighters, attack aircraft, bombers, long-range radar detection aircraft, transport aircraft, helicopters, unmanned aerial vehicles, and cruise missiles) and 18 ground objects, among which are anti-aircraft missile systems and tanks. This book contains data obtained by computations such as circular diagrams of radar backscattering; mean and median radar cross section values of various objects; probability distributions of echo signal amplitude given various parameters of illumination and various kinds of underlying surfaces (for ground objects). Also, as an example, the scattering characteristics for one surface ship are given. This book will be a valuable reference for scientists, engineers, and researchers of electromagnetic wave scattering, computational electrodynamics, and those working on radar detection and recognition algorithms for aerial and ground radar targets.

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