



# **Electromagnetic Wave Scattering by Aerial and Ground Radar Objects**

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**Electromagnetic Wave Scattering by Aerial and Ground Radar Objects** 

**Electromagnetic Wave Scattering by Aerial and Ground Radar Objects** presents the theory, original calculation methods, and computational results of the scattering characteristics of different aerial and ground radar objects. This must-have book provides essential background for computing electromagnetic wave scattering in the presence of different kinds of irregularities, as well as

- Summarizes fundamental electromagnetic statements such as the Lorentz reciprocity theorem and the image principle
- Contains integral field representations enabling the study of scattering from various layered structures
- Describes scattering computation techniques for objects with surface fractures and radar-absorbent coatings
- Covers elimination of "terminator discontinuities" appearing in the method of physical optics in general bistatic cases
- Includes radar cross-section (RCS) statistics and high-range resolution profiles of assorted aircrafts, cruise missiles, and tanks

Complete with radar backscattering diagrams, echo signal amplitude probability distributions, and other valuable reference material, **Electromagnetic Wave Scattering by Aerial and Ground Radar Objects** is ideal for scientists, engineers, and researchers of electromagnetic wave scattering, computational electrodynamics, and radar detection and recognition algorithms.



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