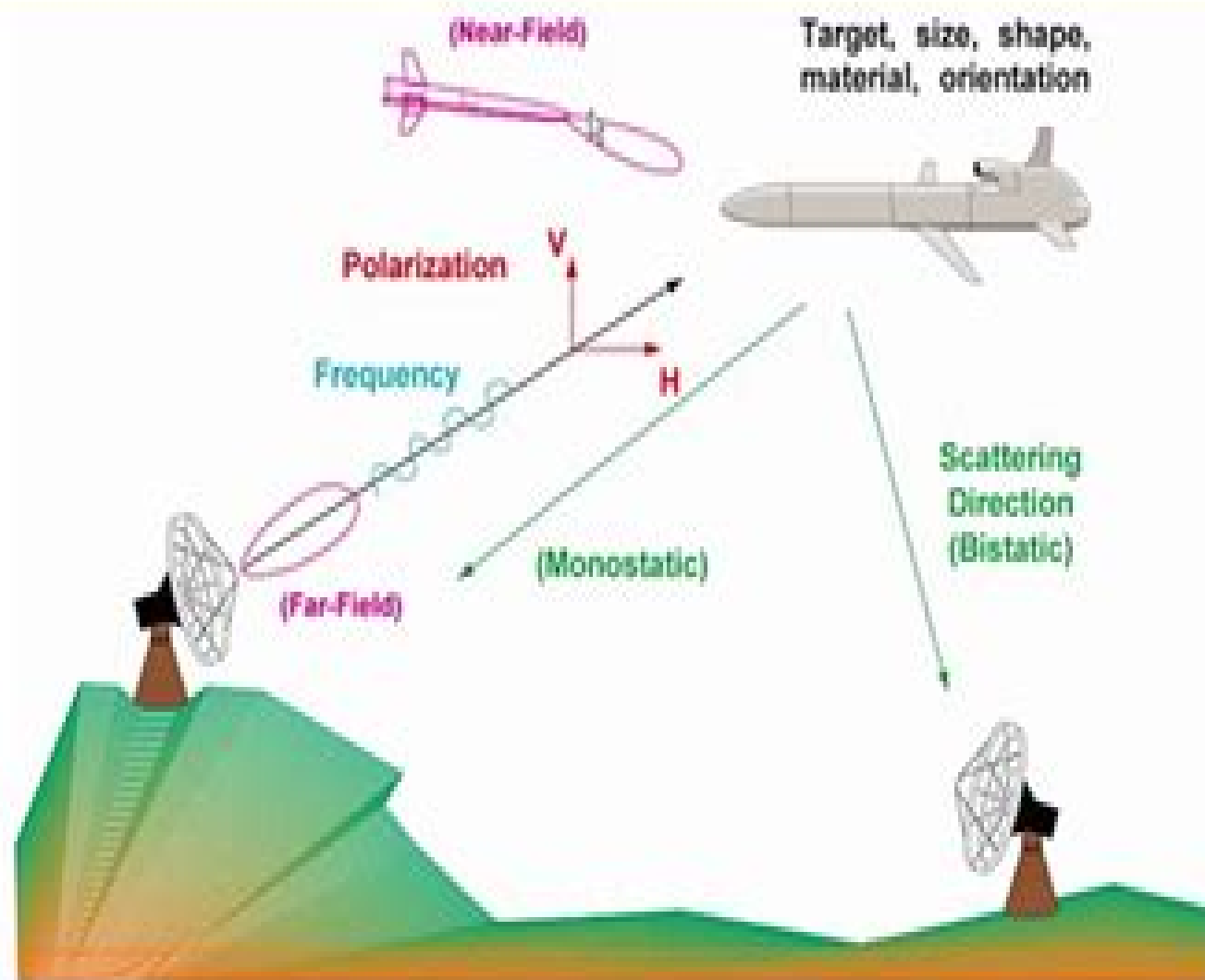




# Factors Determining RCS



# Radar Target

**Robert R. Redfield**



## **Radar Target:**

*Radar Target Imaging* Wolfgang-Martin Boerner, Herbert Überall, 2012-12-06 Radar imaging as understood here involves target recognition i.e. the determination of the detailed properties of an object size shape structure and composition and also location and speed from radar echoes returned by it Advanced approaches are required for this and several of recent interest are discussed in this book They include mathematical inverse scattering techniques based on the solution of integral equations use of the singularity expansion method SEM related to the resonance scattering theory RST in which the pattern of resonance frequency location in the complex frequency plane can be employed to characterize a given radar target and the use of polarization information Finally the measurement of radar cross sections is described

### **Radar Target Detection**

Daniel Meyers, 2012-12-02 *Radar Target Detection Handbook of Theory and Practice* covers a set of graphical solutions to the detection problem designated as Meyer Plots for radar systems design A radar system's major purpose is the detection and location of an object by means of a return signal which could be either a reflection or a beacon This book is composed of four chapters Chapter 1 presents the basic radar range equation which is the basic relationship which permits the calculation of echo signal strength from measurable or known parameters of the radar transmitter antenna propagation path and target Chapter 2 provides examples for determining statistical signal detection using Meyer Plots particularly for determining detection probability and integration loss and efficiency Chapter 3 describes the application of target models to determination of detection probability Chapter 4 examines how Meyer Plots can be used to solve problems involving most any target model

### **Introduction to Radar Target Recognition**

P. Tait, 2005 This book text provides an overview of the radar target recognition process and covers the key techniques being developed for operational systems It is based on the fundamental scientific principles of high resolution radar and explains how the underlying techniques can be used in real systems taking into account the characteristics of practical radar system designs and component limitations It also addresses operational aspects such as how high resolution modes would fit in with other functions such as detection and tracking

*Atmospheric Effects on Radar Target Identification and Imaging* H. Jeske, 2012-12-06 The Advanced Study Institute ASI under discussion was initiated by the Special Programme Panel on Radio meteorology of the Scientific Affairs Division of NATO The domain of this panel and consequently the topics of their former ASI programmes is the influence of the non ionized atmosphere on electromagnetic wave propagation its prediction and its use as a remote sensing technique It is the final goal to inform radio and radar engineers about the various defects caused by the propagation medium atmosphere Today there exist high sensitive radar systems which can provide identification and produce images of distant objects very accurately by measuring a) the effect of the target on the shape of a short radar pulse or b) the wave front phase and amplitude distribution and its orientation in space But usually the radar to target path is through the inhomogeneous and turbulent atmosphere and so the absolute limits of the system are very often determined by this atmosphere It was the plan of

this ASI to arrange an interdisciplinary information exchange between radar experts and propagation specialists in order to get a better understanding of the susceptibility to atmospheric effects and to develop new methods that will reduce or correct these errors. The lectures given and especially the intensive discussions during the workshop sessions contributed to this aim.

High-Precision Automotive Radar Target Simulation Diewald, Axel, 2023-08-15 Radar target simulators RTSs deceive a radar under test RuT by creating an artificial environment consisting of virtual radar targets. In this work, new techniques are presented that overcome the rasterization deficiency of current RTS systems and enable the generation of virtual targets at arbitrary high precision positions. This allows for continuous movement of the targets and thus a more credible simulation environment.

*Continuation of the Investigation of Multi-frequency Radar Reflectivity and Radar Target Identification* D. L. Moffatt, 1975 This report summarizes research during the period July 1 1974 to June 30 1975 under the contract on two technical objectives of the Air Force: improved detection and discrimination of radar targets and reduction of nonspecular scattering by wing geometries. The report is contained in two main sections. The first section outlines methods for deducing the complex natural resonances of arbitrary radar targets and the use of these resonances via predictor correlator processing for detection and discrimination. Illustrative examples of both natural resonance extraction and discrimination are given for aircraft targets. The second section of the report summarizes the analysis of a loaded two dimensional wind model for horizontal polarization. Hybrid techniques combining moment methods and the geometrical theory of diffraction are used and the loading consists of surface impedance patches. Examples of reduction of the nonspecular cross section are given. A folded dipole like antenna is used as an alternate mechanism for controlling edge diffracted fields.

**HumRRO Research Memorandum: Radar Target as Influenced by Experience and Training, A.D. Wright, E.W. Frederickson, and James L. Clafin, U.S. Army Air Defense Human Unit, Fort Bliss, Texas. 260:** United States Department of the Army, 1964

**Target Detection by Marine Radar** John N. Briggs, 2004-12-03 Radar is a legal necessity for the safe navigation of merchant ships and within vessel traffic services is indispensable to the operation of major ports and harbours. Target Detection by Marine Radar concentrates solely on civil marine operations and explains how marine surveillance radars detect their targets. The book is fully illustrated and contains worked examples to help the reader understand the principles underlying radar operation and to quantify the importance of factors such as the technical features of specific equipment, the weather, target reflection properties and the ability of the operator. The precision with which targets are positioned on the radar screen and with which their progress is tracked or predicted depends on how definitely they have been detected; therefore a whole chapter has been devoted to the issue of accuracy. The various international regulations governing marine radar are examined, a brief historical background is given to modern day practice and the book closes with a discussion of the ways in which marine radar may develop to meet future challenges.

ASTIA Subject Headings Defense Documentation Center (U.S.), 1959

Special Topics In Electromagnetics Kun-Mu Chen, 2008-01-01

**Official Gazette of**

**the United States Patent and Trademark Office** ,1986      *Neural Information Processing* Biao Luo,Long Cheng,Zheng-Guang Wu,Hongyi Li,Chaojie Li,2023-11-14 The six volume set LNCS 14447 until 14452 constitutes the refereed proceedings of the 30th International Conference on Neural Information Processing ICONIP 2023 held in Changsha China in November 2023 The 652 papers presented in the proceedings set were carefully reviewed and selected from 1274 submissions They focus on theory and algorithms cognitive neurosciences human centred computing applications in neuroscience neural networks deep learning and related fields      NASA Thesaurus ,1998 Contains the authorized subject terms by which the documents in the NASA STI Database are indexed and retrieved      **Bulletin** ,1958      *Review* ,1981      *NRL Review* ,1980      Technical Abstract Bulletin Defense Documentation Center (U.S.),1964      Search Strategies for Radar Target Localization Ayman Ahmed Abdel-Samad,2001      *Proceedings of 3rd 2023 International Conference on Autonomous Unmanned Systems (3rd ICAUS 2023)* Yi Qu,Mancang Gu,Yifeng Niu,Wenxing Fu,2024-04-26 This book includes original peer reviewed research papers from the 3rd ICAUS 2023 which provides a unique and engaging platform for scientists engineers and practitioners from all over the world to present and share their most recent research results and innovative ideas The 3rd ICAUS 2023 aims to stimulate researchers working in areas relevant to intelligent unmanned systems Topics covered include but are not limited to Unmanned Aerial Ground Surface Underwater Systems Robotic Autonomous Control Navigation and Positioning Architecture Energy and Task Planning and Effectiveness Evaluation Technologies Artificial Intelligence Algorithm Bionic Technology and their Application in Unmanned Systems The papers presented here share the latest findings in unmanned systems robotics automation intelligent systems control systems integrated networks modelling and simulation This makes the book a valuable resource for researchers engineers and students alike      **DDC Retrieval and Indexing Terminology** Defense Documentation Center (U.S.),1975

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