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Echo of a dangerous target

Echo of a moving target

# Radar Targets

**Hussin A.Rothana**



## **Radar Targets:**

**Identification of Radar Targets by Pattern Recognition** William Bernard Goggins, 1973 The problem of identifying radar targets without predetermined knowledge or measurements of their aspect angle is examined The proposed solution is to use radar magnitude and phase versus frequency data in the resonance region as input data for pattern recognition techniques Practical methods are developed for measuring radar phase and dealing with polarization effects Pattern recognition algorithms that optimize separation between pairs of input data are developed These algorithms are based on digital spatial frequency filtering of curves of the radar return versus the radar frequency The technique is simulated on a digital computer for three objects a cylinder a cone and a step cylinder all of about the same size Results show that at most aspect angles satisfactory recognition is attained at moderate signal to noise ratios 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 **Micro-Doppler Characteristics of Radar Targets**

Qun Zhang, Ying Luo, Yong-an Chen, 2016-10-31 Micro Doppler Characteristics of Radar Targets is a monograph on radar target s micro Doppler effect theory and micro Doppler feature extraction techniques The micro Doppler effect is presented from two aspects including micro Doppler effect analysis and micro Doppler feature extraction with micro Doppler effects induced by different micro motional targets in different radar systems analyzed and several methods of micro Doppler feature extraction and three dimensional micro motion feature reconstruction presented The main contents of this book include micro Doppler effect in narrowband radar micro Doppler effect in wideband radar micro Doppler effect in bistatic radar micro Doppler feature analysis and extraction and three dimensional micro motion feature reconstruction etc This book can be used as a reference for scientific and technical personnel engaged in radar signal processing and automatic target recognition etc It is especially suitable for beginners who are interested in research on micro Doppler effect in radar Presents new views on micro Doppler effects analyzing and discussing micro Doppler effect in wideband radar rather than focusing on narrowband Provides several new methods for micro Doppler feature extraction which are very helpful and practical for readers Includes practical cases that align with main MATLAB codes in each chapter with detailed program annotations **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      *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      *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 does with a discussion of the ways in which marine radar may develop to meet future challenges

**Millimeter-wave Radar Targets and Clutter** Gennadii Petrovich Kulemin, David Knox Barton, 2003 This ground breaking resource offers you a detailed treatment of EDGE and its critical role in the development of the mobile Internet The book explains how this global radio based high speed mobile data standard can be introduced into GSM GPRS networks improving data transmission speeds to support multimedia services It enables you to become thoroughly knowledgeable of EDGE specifications and covers concepts pertaining to several domains including RF signal processing digital communications and communication networks      **A Preliminary Study of Unidentified Targets Observed on Air Traffic Control Radars** Richard Camp Borden, Tiley K. Vickers, 1952      *Radar Targets* Christian G. Bachman, 1982

High-Precision Automotive Radar Target Simulation Diwald, 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

**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

**Target Position Estimation with a Continuous Wave Radar Network** Urs Lübbert, 2005 NASA *Thesaurus*, 1998 Contains the authorized subject terms by which the documents in the NASA STI Database are indexed and retrieved

**Advanced Metric Wave Radar** Jianqi Wu, 2019-07-12 This book systematically describes advanced metric wave radar and its practical applications offering a comprehensive introduction to the engineering design methods from the perspectives of system design antenna feed and transmit receive subsystems as well as mechanical structure design Focusing on the height finding method it describes in detail how the super resolution technique can be used to solve the problem of low angle height finding in metric wave radar It also discusses the anti jamming method for the unique jamming environment Further it presents narrowband target recognition methods to overcome the limitations of narrow absolute bandwidth in metric wave radar and to further explore the techniques potential Cooperative detection for metric wave radar netting is also addressed and the main experimental results are included The book offers a valuable resource for professional engineers researchers and teachers as well as graduate students engaged in radar system engineering electronic engineering and signal processing

**Radar and Radionavigation** Anatoly Ivanovich Kozlov, Yuri Grigoryevich Shatrakov, Dmitry Alexandrovich Zatuchny, 2022-10-19 This book highlights the capabilities and limitations of radar and air navigation It discusses issues related to the physical principles of an electromagnetic field the structure of radar information and ways to transmit it Attention is paid to the classification of radio waves used for transmitting radar information as well as to the physical description of their propagation media The third part of the book addresses issues related to the current state of

navigation systems used in civil aviation and the prospects for their development in the future as well as the history of satellite radio navigation systems The book may be useful for schoolchildren interested in the problems of radar and air navigation     Technical Abstract Bulletin Defense Documentation Center (U.S.),1964     *ASTIA Subject Headings* Defense Documentation Center (U.S.),1959     **Time-domain Imaging of Radar Targets Using Ultra-wideband Or Short Pulse Radars** Yingcheng Dai,1997     **Air Traffic Control** ,1982     *Scientific and Technical Aerospace Reports* ,1992

## Decoding **Radar Targets**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Radar Targets**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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