

# Radar Systems Analysis and Design Using MATLAB™

**FOURTH EDITION**



**Bassem R. Mahafza**



**CRC Press**  
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A CHAPMAN & HALL BOOK

# Radar System Analysis

**Ying Liu**



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**Radar System Analysis, Design, and Simulation** Eyung W. Kang, 2008 This book helps you master critical system analysis and design skills and shows you how to use digital computer simulation to verify that an analysis is correct and that a design is optimal This comprehensive resource covers a wide range of essential topics from matrix vector and linear equations noise and clutter generation Filters FIR and IIR and fast Fourier transforms to ambiguity functions antennas target detection and the Kalman filter to the Monte Carlo method constant false alarm rate CFAR processing and moving target indicators MTI

*Radar Systems Analysis and Design Using MATLAB* Bassem R. Mahafza, 2005-03-09 An introduction to radar systems should ideally be self contained and hands on a combination lacking in most radar texts The first edition of *Radar Systems Analysis and Design Using MATLAB* provided such an approach and the second edition continues in the same vein This edition has been updated expanded and reorganized to include advances in t

**Modern Radar System Analysis** David Knox Barton, 1988 This book presents the basic principles analyses design formulas and characteristics of various fin line configurations You ll find summaries of hundreds of rigorous formulas as well as approximate closed form expressions which can be readily programmed to generate design data for any structure Discover millimeter wave integrated circuits and components realized using the various fin line techniques presented in the text including directional couplers power dividers attenuators detectors modulators and oscillators An Artech House bestseller

*Modern Radar System Analysis* David K. Barton, 2007 A software that offers radar and electronic warfare engineers a tool for solving the radar equation for the maximum range at which a radar can achieve target detection under conditions of various interference sources such as thermal noise surface clutter precipitation chaff and jamming

**Radar Systems Analysis and Design Using MATLAB Third Edition** Bassem R. Mahafza, 2013-05-20 Developed from the author s graduate level courses the first edition of this book filled the need for a comprehensive self contained and hands on treatment of radar systems analysis and design It

quickly became a bestseller and was widely adopted by many professors. The second edition built on this successful format by rearranging and updating topics and code. Reorganized, expanded, and updated. **Radar Systems Analysis and Design Using MATLAB Third Edition** continues to help graduate students and engineers understand the many issues involved in radar systems design and analysis. Each chapter includes the mathematical and analytical coverage necessary for obtaining a solid understanding of radar theory. Additionally, MATLAB functions and programs in each chapter further enhance comprehension of the theory and provide a source for establishing radar system design requirements. Incorporating feedback from professors and practicing engineers, the third edition of this bestselling text reflects the state of the art in the field and restructures the material to be more convenient for course use. It includes several new topics and many new end-of-chapter problems. This edition also takes advantage of the new features in the latest version of MATLAB. Updated MATLAB code is available for download on the book's CRC Press web page.

**Modern Radar System Analysis Software and User's Manual** David K. Barton, William F. Barton, 1990-09-01

Radar System Analysis David Knox Barton, 1976

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*Introduction to Radar Analysis* Bassem R. Mahafza, 2017-11-23

*Introduction to Radar Analysis* Second Edition is a major revision of the popular textbook. It is written within the context of communication theory as well as the theory of signals and noise. By emphasizing principles and fundamentals, the textbook serves as a vital source for students and engineers. Part I bridges the gap between communication signal analysis and radar. Topics include modulation techniques and associated Continuous Wave (CW) and pulsed radar systems. Part II is devoted to radar signal processing and pulse compression techniques. Part III presents special topics in radar systems including radar detection, radar clutter, target tracking, phased arrays, and Synthetic Aperture Radar (SAR). Many new exercises are included, and the author provides comprehensive, easy-to-follow mathematical derivations of all key equations and formulas. The author has worked extensively for the U.S. Army, the U.S. Space and Missile Command, and other military agencies. This is not just a textbook for senior-level and graduate students but a valuable tool for practicing radar engineers.

Features:

- Authored by a leading industry radar professional.
- Comprehensive, up-to-date coverage of radar systems analysis issues.
- Easy-to-follow mathematical derivations of all equations and formulas.
- Numerous graphical plots and table-format outputs.

One part of the book is dedicated to radar waveforms and radar signal processing.

Radar System Analysis Algorithms. Radar System Analysis Models of Performance Degradation by Mutual Interference S. T. Li, NAVAL OCEAN SYSTEMS CENTER SAN DIEGO CA., 1978

This report provides an overview of current radar system analysis models. It is an initial effort toward a radar system analysis capability as part of the Electromagnetic Environment (EMX) Program. The principles and approach of the EMX Program are outlined. Existing radar system analysis models are briefly discussed, and a functional background of basic radar systems and environments is provided. The major effort is a narrative analysis of the principles and limitations of current radar analytical models and techniques. A new radar system analysis model is offered, and the development of both a

radar design algorithm and performance evaluation algorithm is recommended Author Basic Radar Analysis, Second Edition Mervin C. Budge, Shawn R. German, 2020-04-30 This highly anticipated second edition of an Artech House classic covers several key radar analysis areas the radar range equation detection theory ambiguity functions waveforms antennas active arrays receivers and signal processors CFAR and chaff analysis Readers will be able to predict the detection performance of a radar system using the radar range equation its various parameters matched filter theory and Swerling target models The performance of various signal processors single pulse pulsed Doppler LFM NLFM and BPSK are discussed taking into account factors including MTI processing integration gain weighting loss and straddling loss The details of radar analysis are covered from a mathematical perspective with in depth breakdowns of radar performance in the presence of clutter Readers will be able to determine the noise temperature of a multi channel receiver as it is used in active arrays With the addition of three new chapters on moving target detectors inverse synthetic aperture radar ISAR and constant false alarm rate CFAR and new MATLAB codes this expanded second edition will appeal to the novice as well as the experienced practitioner Modern Radar System Analysis Software David K. Barton, John Fabing, William F. Barton, 1990-08-01 Intended to provide accurate calculations of the maximum detection range of a pulsed radar under a variety of environmental conditions involving thermal noise jamming and all types of clutter New features of this version include file support extensive help screens increased printer support and numerous small changes *Radar System Design and Analysis* Shahen A. Hovanessian, 1984 En l rebog i radarteknik Beskriver systematisk alle v sentlige sider af radarteknikken *Modern Radar System Analysis Software and User's Manual Version 2.0* David Knox Barton, William F. Barton, 1993 **Radar System Analysis** David K. Barton, 1976 MATLAB Simulations for Radar Systems Design Bassem R. Mahafza, Atef Elsherbeni, 2003-12-17 Simulation is integral to the successful design of modern radar systems and there is arguably no better software for this purpose than MATLAB But software and the ability to use it does not guarantee success One must also Understand radar operations and design philosophy Know how to select the radar parameters to meet the design requirements Be able to perform detailed trade off analysis in the context of radar sizing modes of operation frequency selection waveforms and signal processing Develop loss and error budgets associated with the design MATLAB Simulations for Radar Systems Design teaches all of this and provides the M files and hands on simulation experience needed to design and analyze radar systems Part I forms a comprehensive description of radar systems their analysis and the design process The authors unique approach involves a design case study introduced in Chapter 1 and followed throughout the text As the treatment progresses the complexity increases and the case study requirements are adjusted accordingly Part II presents a series of chapters some authored by other experts in the field on specialized radar topics important to a full understanding of radar systems design and analysis A comprehensive set of MATLAB programs and functions support both parts of the book and are available for download from the CRC Press Web site *Modern Radar Systems* Hamish Meikle, 2008 This revised

and updated edition to the popular Artech House book *Modern Radar Systems* offers complete and current coverage of the subject including new material on accuracy resolution and convolution and correlation The book features more than 540 illustrations drawn in Maple V that offer a greater understanding of various waveforms and other two and three dimensional functions to help you more accurately analyze radar system performance The effects of pulse shaping on transmitter stability and spectra are discussed a topic which is becoming more and more important in the age of electromagnetic compatibility The book addresses the importance of low attenuation and reflection between the main radio frequency blocks including the use of oversized waveguides for long runs

**Radar System Performance Modeling** G. Richard Curry, 2005 Turn to this expanded second edition of an Artech House bestseller for the most current and comprehensive coverage of radar system performance analysis and system level modeling This revised edition features new material on airborne and space based radar radar tracking techniques radar system design and operational and performance issues It also provides new detailed examples problem sets and solutions and a comprehensive self test to evaluate your understanding

**Modern Radar** Raymond S. Berkowitz, 1965

*Modern Radar System Analysis Software and User's Manual Version 2.0* David Knox Barton, 1993

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In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Radar System Analysis**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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