

Environment

Scenes



Scenarios



Antenna/RF



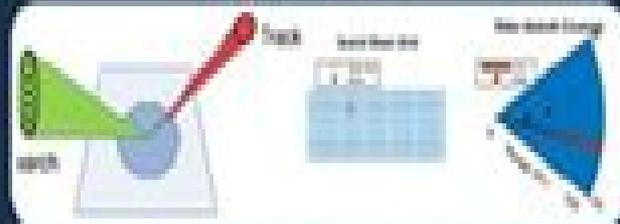
Signal Processing



Data Processing



Resource Management & Controls



Development Platform



Analyze

Simulate

Design

Deploy

Integrate

Test

Radar System Analysis Design And Simulation

Bassem R. Mahafza



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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

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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

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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 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

Radar System Analysis and Modeling David K. Barton, 2004-10-01 A thorough update to the Artech House classic Modern Radar Systems Analysis this reference is a comprehensive and cohesive introduction to radar systems design and performance estimation It offers you the knowledge you need to specify evaluate or apply radar technology in civilian or military systems The book presents accurate detection range equations that let you realistically estimate radar performance in a variety of practical situations With its clear easy to understand language you quickly learn the tradeoffs between choice of wavelength and radar performance and see the inherent advantages and limitations associated with each radar band You find modeling procedures to help you analyze enemy systems or evaluate radar integrated into new weapon systems The book covers ECM and ECCM for both surveillance and tracking to help you estimate the effects of active and passive ECM select hardware software for reconnaissance or jamming and plan the operation of EW systems As radar systems evolve this book provides the equations needed to calculate and evaluate the performance of the latest advances in radar technology

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Reviewing **Radar System Analysis Design And Simulation**: Unlocking the Spellbinding Force of Linguistics

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