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Simulations for Radar

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Simulation? is divided into two parts: Part I provides a comprehensive description of radar systems, analyses and design. A design case study, which is carried throughout the text, is introduced in Chapter 1. In each chapter the authors™ view of how to design the case-study radar

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is presented based on the theory covered up to that point in the book. As

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Simulation is integral to the successful design of modern radar systems, and there is arguably no

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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 req

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Radar system design,
simulation, and
analysis is complex
because the design
space spans the
digital, analog, and
RF domains. These
domains extend
across the complete

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Simulation of the signal chain, from the antenna array, to radar signal processing algorithms, to data processing and control. The resulting system level complexity drives the need for modeling and simulation at all stages of the development cycle.

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Radar System Design
- MATLAB & Simulink

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GitHub - AshivDhond
ea/simulations_radar_
systems_design: A ...

The design goal of
this pulse radar
system is to detect
non-fluctuating targets
with at least one
square meter radar
cross section (RCS)
at a distance up to
5000 meters from the
radar with a range

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Simulation of 50
meters. The desired
performance index is
a probability of
detection (P_d) of 0.9
and probability of
false alarm (P_{fa})
below $1e-6$.

Designing a Basic
Monostatic Pulse
Radar - MATLAB ...
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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.

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Mahafza, Bassem R.
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Radar Systems

Analysis and Design

Using MATLAB.

Author: Bassem R.

Mahafza Hung D. Ly,

Qilian Liang, Spatial-

temporal-frequency

diversity in radar.

MAHAFZA RADAR

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reepro.info

Much of this book covers the same material as the authors' "Radar Systems Analysis and Design Using Matlab". I would recommend this book instead of (but not in addition to) that one. The Matlab code is freely available from the publisher's web

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site. It contains a few calls to functions that are not in the basic Matlab package.

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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.

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Know how to select the radar parameters to meet the design req

Developed from the

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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

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Know how to select
the radar parameters

to meet the design
requirements Ö Be

able to perform
detailed trade-off

analysis in the context
of radar sizing, modes

of operation,

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frequency selection,
waveforms, and
signal processing Ö

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error budgets

associated with the
design MATLAB

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provides the M-files
and hands-on

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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

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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.

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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.

Offering radar-related software for the analysis and design of radar waveform and signal processing,

Radar Signal Analysis

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and Processing Using
MATLAB® provides a
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source of theoretical
and practical
information on radar
signals, signal
analysis, and radar
signal processing with
companion MATLAB®
code. After an
overview of radar
systems operation
and design, the book

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reviews elements of
signal theory relevant
to radar detection and
radar signal

processing, along with
random variables and
processes. The
author then presents
the unique
characteristic of the
matched filter and
develops a general
formula for the output
of the matched filter

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that is valid for any waveform. He analyzes several analog waveforms, including the linear frequency modulation pulse and stepped frequency waveforms, as well as unmodulated pulse-train, binary, polyphase, and frequency codes. The book explores radar

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target detection and pulse integration, emphasizing the constant false alarm rate. It also covers the stretch processor, the moving target indicator, radar Doppler processing, beamforming, and adaptive array processing. Using configurable MATLAB code, this book

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demonstrates how to apply signal processing to radar applications. It includes many examples and problems to illustrate the practical application of the theory.

Developed from the author's graduate-level courses, the first

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necessary for

obtaining a solid

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Additionally, MATLAB

functions/programs in

each chapter further

enhance

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theory and provide a

source for
establishing radar

system design

requirements.

Incorporating

feedback from

professors and

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the third edition of this

bestselling text

reflects the state of

the art in the field and

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material to be more convenient for course use. It includes several new topics and many new end-of-chapter problems.

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This comprehensive resource provides readers with the tools necessary to perform analysis of various waveforms for use in radar systems. It provides information about how to produce synthetic aperture (SAR) images by giving a tomographic

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formulations and
implementation for
SAR imaging.

Tracking filter
fundamentals, and
each parameter
associated with the
filter and how each
affects tracking
performance are also
presented. Various
radar cross section
measurement
techniques are

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covered, along with waveform selection analysis through the study of the ambiguity function for each particular waveform from simple linear frequency modulation (LFM) waveforms to more complicated coded waveforms. The text includes the Python tool suite, which allows the

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reader to analyze and predict radar performance for various scenarios and applications. Also provided are MATLAB® scripts corresponding to the Python tools. The software includes a user-friendly graphical user interface (GUI) that provides visualizations of the

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concepts being covered. Users have full access to both the Python and MATLAB source code to modify for their application. With examples using the tool suite are given at the end of each chapter, this text gives readers a clear understanding of how important target scattering is in areas

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of target detection,
target tracking, pulse
integration, and target
discrimination.

Signal Processing for
Multistatic Radar
Systems: Adaptive
Waveform Selection,
Optimal Geometries
and Pseudolinear
Tracking Algorithms
addresses three
important aspects of

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Simulation for
multistatic radar
systems, including
adaptive waveform
selection, optimal
geometries and
pseudolinear tracking
algorithms. A key
theme of the book is
performance
optimization for
multistatic target
tracking and
localization via

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Simulation, geometry optimization and tracking algorithm design. Chapters contain detailed mathematical derivations and algorithmic development that are accompanied by simulation examples and associated MATLAB codes. This book is an ideal

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Simulation resource for university researchers and industry engineers in radar, radar signal processing and communications engineering.

Develops waveform selection algorithms in a multistatic radar setting to optimize target tracking performance

Assesses the

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optimality of a given
target-sensor
geometry and designs
optimal geometries for
target localization
using mobile sensors
Gives an
understanding of low-
complexity and high-
performance
pseudolinear
estimation algorithms
for target localization
and tracking in

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multistatic radar

systems Contains the
MATLAB codes for
the examples used in
the book

Radar Expert,
Esteemed Author
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CNN and CBS
Author
Gregory L. Charvat
appeared on CNN on
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discuss whether

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Flight 370 might have
literally flown below
the radar. He

appeared again on
CNN on March 20,
2014 to explain the
basics of radar, and
he explored the hope
and limitations of the
technology i

A thorough update to
the Artech House

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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

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Simulation. 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

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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

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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

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radar technology.
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With its active, hands-
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underlying principles

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of digital signal
processing and its
many applications in
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mobile and
broadband
communications, and
medical/scientific
devices. Carefully
developed MATLAB®
examples throughout
the text illustrate the
mathematical

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into practice solving
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challenges. Following
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chapter, the text
explores: Sampled
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processing Random
signals Representing
signals and systems
Temporal and spatial
signal processing
Frequency analysis of

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signals Discrete-time filters and recursive filters Each chapter begins with chapter objectives and an introduction. A summary at the end of each chapter ensures that one has mastered all the key concepts and techniques before progressing in the text. Lastly,

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appendices listing selected web resources, research papers, and related textbooks enable the investigation of individual topics in greater depth. Upon completion of this text, readers will understand how to apply key algorithmic techniques to address practical signal

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processing problems as well as develop their own signal processing algorithms. Moreover, the text provides a solid foundation for evaluating and applying new digital processing signal techniques as they are developed.

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