

Radar Signal Processing -Basic Concepts

RADAR SYSTEMS

Radar Signal Processing

Bassem R. Mahafza

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Introduction to radar systems Signal models Pulsed radar data acquisition Radar waveforms Doppler processing Detection fundamentals Measurements and tracking Introduction to synthetic aperture imaging Introduction to beamforming and space time adaptive processing Radar Signal Analysis and Processing Using MATLAB Bassem R. Mahafza, 2016-04-19 Offering radar related software for the analysis and design of radar waveform and signal processing Radar Signal Analysis and Processing Using MATLAB provides a comprehensive source of theoretical and practical information on radar signals signal analysis and radar signal processing with companion MATLAB code Aft Radar Signal Processing and Its Applications Jian Li, Robert Hummel, Petre Stoica, Edmund G. Zelnio, 2003-03-31 Radar Signal Processing and Its Applications brings together in one place important contributions and up to date research results in this fast moving area In twelve selected chapters it describes the latest advances in architectures design methods and applications of radar signal processing. The contributors to this work were selected from the leading researchers and practitioners in the field This work originally published as Volume 14 Numbers 1 3 of the journal Multidimensional Systems and Signal Processing will be valuable to anyone working or researching in the field of radar signal processing It serves as an excellent reference providing insight into some of the most Fundamentals of Radar Signal Processing, 3E Mark A. Richards, 2022-04-01 challenging issues being examined today Your cutting edge introduction to radar signal processing fully updated for the latest advances This up to date guide provides in depth coverage of the full breadth of foundational radar signal processing methods of waveform design Doppler processing detection tracking imaging and adaptive processing from a digital signal processing perspective The techniques of linear systems filtering sampling and Fourier analysis are used throughout to provide a unified tutorial approach Developed from the author's extensive academic and professional experience Fundamentals of Radar Signal Processing Third Edition has been revised and updated throughout Readers will find the solid foundations of earlier editions enhanced with new material on such topics as keystone formatting detection in spiky clutter range migration and backprojection imaging virtual arrays ground moving target indication and many more Presents complete coverage of foundational digital radar signal processing techniques Integrates linear FMCW techniques of emerging fields such as automotive radar with pulsed methods Includes additional homework problems in all chapters Comes with an online suite of answer keys solutions manuals tutorial MATLAB demos and technical notes Aspects of Radar Signal Processing B. L. Lewis, F. F. Kretschmer, Wesley W. Shelton, 1986

Compressed Sensing in Radar Signal Processing Antonio De Maio, Yonina C. Eldar, Alexander M. Haimovich, 2019-10-17 Learn about the latest theoretical and practical advances in radar signal processing using tools from compressive sensing Fundamentals of Radar Signal Processing, Third Edition Mark A. Richards, 2022-04-01 A complete guide to the full spectrum of fundamental radar signal processing systems fully updated for the latest advances This thoroughly revised resource offers comprehensive coverage of foundational digital signal processing methods for both pulsed and FMCW radar Developed from the author's extensive academic and professional experience Fundamentals of Radar

Signal Processing Third Edition covers all of the digital signal processing techniques that form the backbone of modern radar systems revealing the common threads that unify them The basic tools of linear systems filtering sampling and Fourier analysis are used throughout to provide a unified tutorial approach You will get end of chapter problems that reinforce and apply salient points as well as an online suite of tutorial MATLAB R demos and supplemental technical notes Classroom instructors additionally receive a solutions manual and sample MATLAB tutorial demos Coverage includes An introduction to radar systems Signal models Data acquisition and organization Waveforms and pulse compression Doppler processing Threshold detection and CFAR Measurements and tracking Synthetic aperture imaging Adaptive array processing and STAP

Topics in Radar Signal Processing Graham Weinberg,2018-05-16 Radar has been an important topic since its introduction in a military context during World War II Due to advances in technology it has been necessary to refine the algorithms employed within the signal processing architecture Hence this book provides a series of chapters examining some topics in modern radar signal processing These include synthetic aperture radar multiple input multiple output radar as well as a series of chapters examining other key issues relevant to the central theme of the book **Radar Signal Processing and Adaptive Systems** Ramon Nitzberg,1999 A valuable resource for radar engineers and managers of all levels this revised edition provides an introduction to the capabilities and limitations of radar as well as a detailed advanced study of key radar signal processing topics The book explains the concepts and theory of radar signal processing such as resolution ambiguities antennas waveforms the theory of detecting targets in noise and or clutter and tracking using data processing It also presents equations for the determination of maximum radar range in free space and as affected by multipath and the horizon

Signal Processing for Joint Radar Communications Kumar Vijay Mishra, M. R. Bhavani Shankar, Bjorn Ottersten, A. Lee Swindlehurst, 2024-04-09 A one stop comprehensive source for the latest research in joint radar communications In Signal Processing for Joint Radar Communications a trio of eminent electrical engineers delivers a practical and informative contribution to the diffusion of newly developed joint radar communications JRC tools into the radar and communications communities and to illustrate recent successes in applying modern signal processing theories to core problems in JRC The book offers new results on algorithmic methods and applications of JRC in diverse areas including autonomous vehicles waveform design information theory privacy security beamforming estimation theory and sampling The distinguished editors bring together contributions from leading JRC researchers working in radar systems remote sensing electromagnetics optimization and signal processing The included resources provide an in depth mathematical treatment of relevant signal processing tools and computational methods allowing readers to take full advantage of JRC systems Readers will also find Thorough introductions to joint radar communications theory and applications joint precoding and beamforming and communications based JRC Comprehensive explorations of JRC processing via matrix completion interference mitigation techniques and jamming and clutter in JRC Practical discussions of information theoretic aspects of JRC optimization aspects

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and Signal Analysis Victor C. Chen, Hao Ling, 2002 This text explores more efficient ways to extract dispersive scattering features detect and extract weak signals in noise form clear radar images estimate parameters and perform motion compensation and detect and track moving targets in the synthetic aperture radar Adaptive Radar Signal Processing Simon Haykin, 2007 This collaborative work presents the results of over twenty years of pioneering research by Professor Simon Haykin and his colleagues dealing with the use of adaptive radar signal processing to account for the nonstationary nature of the environment These results have profound implications for defense related signal processing and remote sensing References are provided in each chapter guiding the reader to the original research on which this book is based Systems Paul A. Lynn, 2012-12-06 The rapid development of electronics and its engineering applications ensures that new topics are always competing for a place in university and polytechnic courses But it is often difficult for lecturers to find suitable books for recom mendation to students particularly when a topic is covered by a short lecture module or as an option Macmillan New Electronics offers introductions to advanced topics The level is generally that of second and subsequent years of undergraduate courses in electronic and electrical engineering computer science and physics Some of the authors will paint with a broad brush others will concentrate on a narrower topic and cover it in greater detail But in all cases the titles in the Series will provide a sound basis for further reading of the specialist literature and an up to date appreciation of practical applications and likely trends The level scope and approach of the Series should also appeal to practising engineers and scientists encountering an area of electronics for the first time or needing a rapid and authoritative update vii Preface The basic principles of radar do not change but the design and technology of practical radar systems have developed rapidly in recent years Advances in digital electronics and computing are having a major impact especially in radar signal processing and display I hope that this book will prove a useful intro duction to such developments as well as to the underlying principles of radar detection Digital Signal Processing Techniques and Applications in Radar Image Processing Bu-Chin Wang, 2008-08-20 A self contained approach to DSP techniques and applications in radar imaging The processing of radar images in general consists of three major fields Digital Signal Processing DSP antenna and radar operation and algorithms used to process the radar images This book brings together material from these different areas to allow readers to gain a thorough understanding of how radar images are processed The book is divided into three main parts and covers DSP principles and signal characteristics in both analog and digital domains advanced signal sampling and interpolation techniques Antenna theory Maxwell equation radiation field from dipole and linear phased array radar fundamentals radar modulation and target detection techniques continuous wave pulsed Linear Frequency Modulation and stepped Frequency Modulation Properties of radar images algorithms used for radar image processing simulation examples and results of satellite image files processed by Range Doppler and Stolt interpolation algorithms The book fully utilizes the computing and graphical capability of MATLAB to display the signals at various processing stages in 3D and or cross sectional views

Additionally the text is complemented with flowcharts and system block diagrams to aid in readers comprehension Digital Signal Processing Techniques and Applications in Radar Image Processing serves as an ideal textbook for graduate students and practicing engineers who wish to gain firsthand experience in applying DSP principles and technologies to radar imaging

Radar Signal Processing Michael Brancazio,2017-05-05 Radar signal processing is the processing amplification and interpretation of radar signals

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