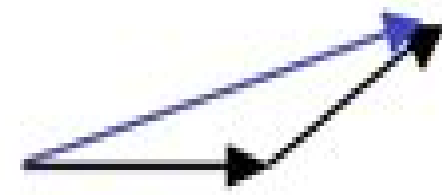
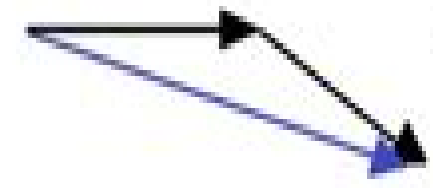


Composite Signal



Composite Signal



$$G_P = \frac{S/I_o}{S/I_i}$$

$$S/I = \frac{P_R}{P_I}$$

$$S/I = \frac{P_R}{P_I}$$

Radar Signal Processing - Basic Concepts

RADAR SYSTEMS

Radar Signal Processing

Mark A. Richards



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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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Academic Press Library in Signal Processing Fulvio Gini, Nikolaos D. Sidiropoulos, 2013-09-10 This second volume edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in communications and radar engineering With this reference source you will Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in array and statistical signal processing Presents core principles and shows their application Reference content on core principles technologies algorithms and applications Comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge Edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic

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polytechnic courses But it is often difficult for lecturers to find suitable books for recommendation 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 introduction to such developments as well as to the underlying principles of radar detection 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 Aspects of Radar Signal Processing Bernard L. Lewis, Frank F. Kretschmer, Jr., Wesley W. Shelton, 1986-01-01 **Time-frequency Transforms for Radar Imaging 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 **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

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