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Micro-Doppler Characteristics of Radar Targets—Zhou, Qian 2016-03-12 Micro-Doppler Characteristics of Radar Targets is a guidebook to various aspects of radar signal theory and radar signal processing, including the extraction of Doppler information from the radar signal. The book is written in a clear and concise manner, with numerous examples and illustrations to aid understanding.

MIMO Radar Signal Processing—Jian Li 2008-10-10 The first book to present a systematic and coherent picture of MIMO radar's due to its potential to improve target detection and discrimination capabilities. MIMO (Multiple-Input Multiple-Output) radar has generated significant attention and widespread interest in academia, government, and defense communities. The book covers topics such as MIMO radar signal processing, target detection, parameter estimation, tracking, association, and recognition MIMO radar targets and prototypes and measurements. Space-time codes for MIMO radar Statistical MIMO Radar Waveform design for MIMO radar Written in an easy-to-follow tone, this book is the MIMO Radar Signal Processing for deep learning corresponding.

Radar Signal Processing and Its Applications—Jian Li 2013-12-21 Radar Signal Processing and Its Applications brings together one in place important contributions and up-to-date research results in this fast-moving area. In two parts, the chapters describe the latest advances of features for MIMO radar signal processing, including the micro-Doppler effect and micro-motion feature reconstruction. The book also presents how deep learning architectures are directly feeding raw ADC data to the classifiers. The book also presents how deep learning architectures are directly feeding raw ADC data to the classifiers.

Rough Sets and Current Trends in Computing—Shishkova Tsukato 2004-06-16 In recent years rough set theory has attracted the attention of many researchers and practitioners all over the world, who have contributed extensively to its development and applications. In this book, the authors present the basics of rough set theory and its applications in solving real-world problems.
Synthetic Aperture Radar: J. Patrick Fitzh 2012-11-06 Radar, like most well developed areas, has its own
vocabulary: Words like Doppler frequency, pulse compression, mismatch filter, carrier frequency, in-phase, and
quadrature were carefully researched and selected from 340 submissions. The papers are organized in topical
sections on vision and image; algorithms; robotics; human-computer interaction; deep learning; information
processing. In the automotive industry, autonomous driving is currently a hot topic that leads to numerous
discussions and applications. In this book, we present the techniques used in Radar Signal Processing for Autonomous
Driving and the practical applications. This book provides detailed procedures about how to generate and analyze micro-Doppler signatures from radar signals. Radar Signal Processing for Autonomous Driving provides a comprehensive introduction to the engineering design methods of radar and its practical applications, offering a comprehensive introduction to the engineering design methods of radar and its practical applications.

Radar Signal Processing for Autonomous Driving: J. Christopher Carter 1993

Advanced Metric Wave Radar: Jianwei Wu 2019-07-12 This book systematically describes advanced metric wave radar signal processing techniques and their applications to the engineering design of airborne radar systems. The book covers a wide range of topics, from the basics of radar system design to advanced techniques such as doppler straddling resource exploring an airborne radar system that will help to improve the function of airborne radar and self-defense system design. Focusing on the height-finding method, it describes in detail how the super-resolution technique works and how to use it. The book also discusses the technique's potential. Cooperative detection for metric wave radar netting is also addressed, and the main jamming method for the unique jamming environment. Further, it presents narrowband target recognition from the perspectives of system design, antenna/feed and transmit/receive subsystems, as well as mechanical structure design. In the field, this book provides a detailed description of radar system design and the practical application of radar signal processing techniques as well as providing tools for practical applications to encourage further research and results in this area. This book gives the reader an overview of the Fourier transform, radar and signal processing, both specific techniques and general principles, and learning to recognize when, why, and how it is used. It provides an applications-oriented analysis to signal processing primarily for electrical engineers, computer engineers, system designers, mathematicians and graduate students will also find it useful as a reference for their research activities.

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Fourier Transforms in Radar and Signal Processing: 2018-05 The convergence of Fourier transform methods with high tech opens new opportunities for detection and handling of atoms and molecules using nanodevices, with potential for a large variety of scientific and technological applications. The applications of the Fourier transform include holography, telecommunication, music processing, pitch modification, signal coding and signal synthesis: frequency extraction for pattern identification as in speech recognition, image processing, spectral analysis in astrophysics, radar signal processing. Fourier transforms are used broadly, and are of particular value in the analysis of simple functions and combinations of functions found in radar and signal processing. This book "Fourier Transforms in Radar & Signal Processing" focuses on the Fourier transforms applicable in radar and signal processing, as well as discussions of approximations to Fourier transforms and simple algorithms for practical use.

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