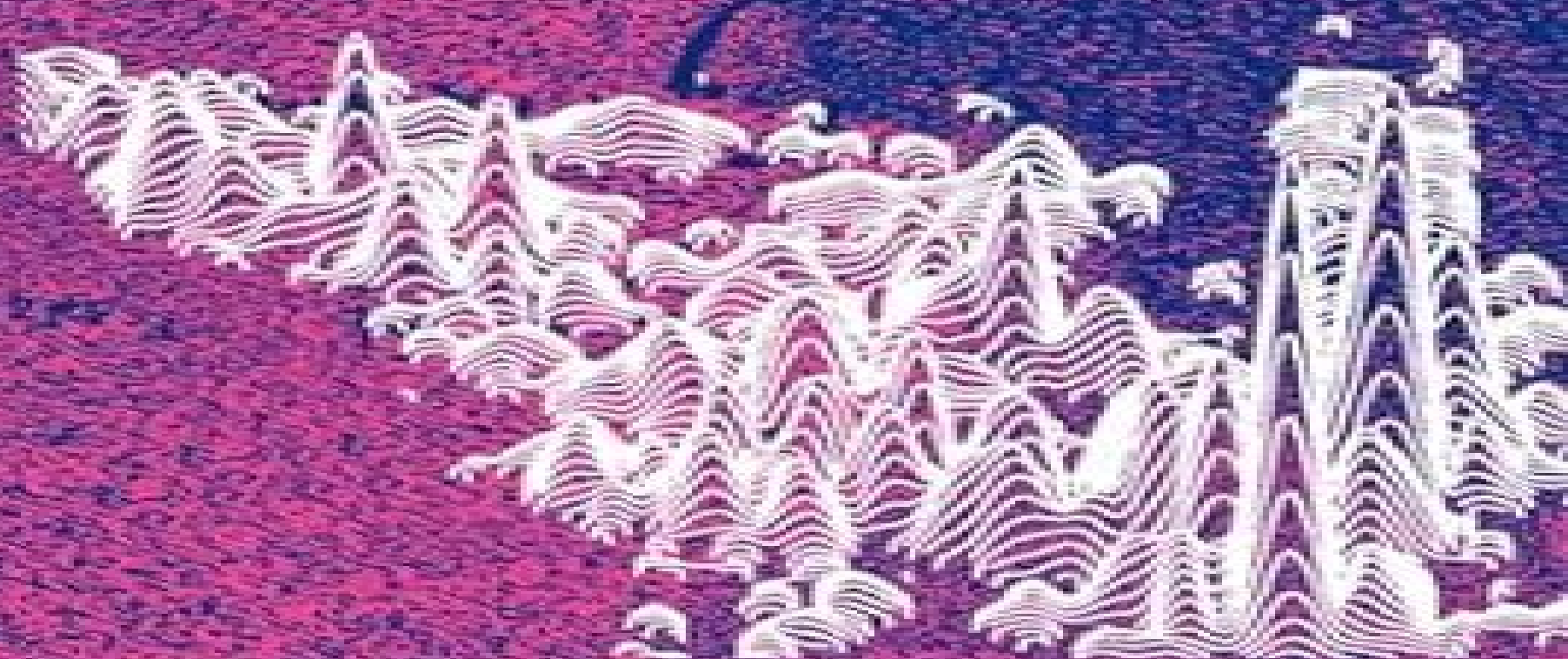


Radar Resolution and Complex-Image Analysis

**August W. Rihaczek
Steven J. Hershkowitz**



Radar Resolution And Compleximage Analysis

M. Jankiraman



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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

Radar Imaging of Airborne Targets Brett Borden, 1999-01-01 Radar based imaging of aircraft targets is a topic that continues to attract a lot of attention particularly since these imaging methods have been recognized to be the foundation of any successful all weather non cooperative target identification technique Traditional books in this area look at the topic from a radar engineering point of view Consequently the basic issues associated with model error and image interpretation are usually not addressed in any substantive fashion Moreover applied mathematicians frequently find it difficult to read the radar engineering literature because it is jargon laden and device specific meaning that the skills most applicable to the problem's solution are rarely applied Enabling an understanding of the subject and its current mathematical research issues Radar Imaging of Airborne Targets A Primer for Applied Mathematicians and Physicists presents the issues and techniques associated with radar imaging from a mathematical point of view rather than from an instrumentation perspective The book concentrates on scattering issues the inverse scattering problem and the approximations that are usually made by practical algorithm developers The author also explains the consequences of these approximations to the resultant radar image and its interpretation and examines methods for reducing model based error

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

Detecting and Classifying Low Probability of Intercept Radar Phillip E. Pace, 2004 Pace Naval Postgraduate School presents the principles of radar

design that enable a low probability of intercept LPI by a noncooperative intercept receiver The RF system uses complex pulse compression CW waveforms low side lobe antennas and power management techniques to render itself virtually undetectable The second part of the textbook investigates three algorithms for providing the intercept receiver with a processing gain that is close to the radar's matched filter processing gain and quantifies their performance with LPI waveforms The CD ROM contains MATLAB code for evaluating the complex LPI radar receiver interactions Annotation 2004 Book News Inc Portland OR booknews com

Modern Radar Systems Hamish Meikle, 2001 This one of a kind book features 536 illustrations drawn in Maple V that offer a greater understanding of various waveforms and other two and three dimensional functions to help you more accurately analyze radar system performance The effects of pulse shaping on transmitter stability and spectra are discussed a topic which is becoming more and more important in the age of electromagnetic compatibility The book addresses the importance of low attenuation and reflection between the main radio frequency blocks including the use of oversized waveguides for long runs

Monopulse Radar Theory and Practice, Second Edition Samuel M. Sherman, David Knox Barton, 2011 Monopulse is a type of radar that sends additional information in the signal in order to avoid problems caused by rapid changes in signal strength Monopulse is resistant to jamming which is one of the main reasons it is used in most radar systems today This updated and expanded edition of an Artech House classic offers you a current and comprehensive treatment of monopulse radar principles techniques and applications The Second Edition features two brand new chapters covering monopulse countermeasures and counter countermeasures and monopulse for airborne radar and homing seekers This essential volume categorizes and describes the various forms of monopulse radar and analyzes their capabilities and limitations The book also devotes considerable space to monopulse circuits and hardware components explaining their functions and performance This practical resource features numerous photographs and illustrations drawn from actual radar systems and components This book serves as a valuable reference for both experienced radar engineers and those new to the field

FMCW Radar Design M. Jankiraman, 2018-07-31 Frequency Modulated Continuous Wave FMCW radars are a fast expanding area in radar technology due to their stealth features extremely high resolutions and relatively clutter free displays This groundbreaking resource offers engineers expert guidance in designing narrowband FMCW radars for surveillance navigation and missile seeking It also provides professionals with a thorough understanding of underpinnings of this burgeoning technology Moreover readers find detailed coverage of the RF components that form the basis of radar construction Featuring clear examples the book presents critical discussions on key applications Practitioners learn how to use time saving MATLAB and SystemVue design software to help them with their challenging projects in the field Additionally this authoritative reference shows engineers how to analyze FMCW radars of various types including missile seekers and missile altimeters Packed with over 600 equations the book presents discussions on key radar algorithms and their implementation as well as designing modern radar to meet given operational requirements

Advanced Ultrawideband Radar James D. Taylor, 2016-12-19 This book presents the latest theory developments and applications related to high resolution materials penetrating sensor systems An international team of expert researchers explains the problems and solutions for developing new techniques and applications Subject areas include ultrawideband UWB signals propagation and scattering materials penetrating radar techniques for small object detection and imaging biolocation using holographic techniques tomography medical applications nondestructive testing methods electronic warfare principles through the wall radar propagation effects and target identification through measuring the target return signal spectrum changes An Introduction to Passive Radar, Second Edition Hugh D. Griffiths, Christopher J. Baker, 2022-04-30 This bestselling book now in its second edition introduces the basic principles of passive radar technology and provides a comprehensive overview of the recent developments and advances in this field It shows you how passive radar works how it differs from the active type and helps you understand the benefits and drawbacks of this novel technology The book gives you the knowledge you need to get a full understanding of this fascinating technology All chapters have been fully revised and updated and are written in a clear and accessible style New chapters have been added to cover advances in the technology that have already been built and demonstrated including systems on moving platforms aircraft and UAVs as well as advances in types of transmission notably single frequency broadcast transmissions and 5G and in processing techniques This book remains an important resource for engineers working in academic industry or government research laboratories academics teaching graduate level students and those working in the specification and procurement of radar systems who need to understand the performance and limitations of the technology

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