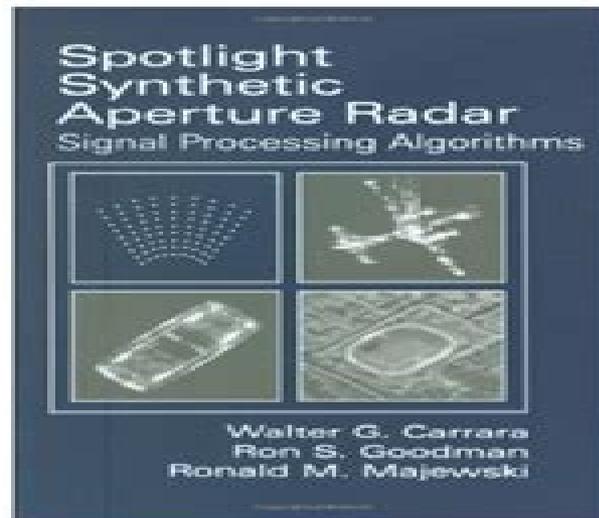


# Spotlight Synthetic Aperture Radar: Signal Processing Algorithms (Artech House Remote Sensing Library)



# Spotlight Mode Synthetic Aperture Radar A Signal Processing Approach

**Renbiao Wu, Qiongqiong Jia, Lei  
Yang, Qing Feng**



## **Spotlight Mode Synthetic Aperture Radar A Signal Processing Approach:**

**Spotlight-Mode Synthetic Aperture Radar: A Signal Processing Approach** Charles V. J. Jakowatz, Daniel E. Wahl, Paul H. Eichel, Dennis C. Ghiglia, Paul A. Thompson, 2012-12-06 Modern airborne and spaceborne imaging radars known as synthetic aperture radars SARs are capable of producing high quality pictures of the earth's surface while avoiding some of the shortcomings of certain other forms of remote imaging systems. Primarily, radar overcomes the nighttime limitations of optical cameras and the cloud cover limitations of both optical and infrared imagers. In addition, because imaging radars use a form of coherent illumination, they can be used in certain special modes such as interferometry to produce some unique derivative image products that incoherent systems cannot. One such product is a highly accurate digital terrain elevation map (DTEM). The most recent (ca. 1980) version of imaging radar known as spotlight mode SAR can produce imagery with spatial resolution that begins to approach that of remote optical imagers. For all of these reasons, synthetic aperture radar imaging is rapidly becoming a key technology in the world of modern remote sensing. Much of the basic workings of synthetic aperture radars is rooted in the concepts of signal processing. Starting with that premise, this book explores in depth the fundamental principles upon which the spotlight mode of SAR imaging is constructed, using almost exclusively the language, concepts, and major building blocks of signal processing. **Spotlight Mode Synthetic Aperture Radar: A Signal Processing Approach** is intended for a variety of audiences. Engineers and scientists working in the field of remote sensing but who do not have experience with SAR imaging will find an easy entrance into what can seem at times a very complicated subject. Experienced radar engineers will find that the book describes several modern areas of SAR processing that they might not have explored previously, e.g., interferometric SAR for change detection and terrain elevation mapping or modern non-parametric approaches to SAR autofocus. Senior undergraduates primarily in electrical engineering who have had courses in digital signal and image processing but who have had no exposure to SAR could find the book useful in a one-semester course as a reference.

**Spotlight-Mode Synthetic Aperture Radar** Charles V. J. Jakowatz, Daniel E. Wahl, Paul H. Eichel, 1996-01-31 **Spotlight mode Synthetic Aperture Radar: A Signal Processing Approach** describes an important mode of synthetic aperture radar (SAR) imaging known as spotlight mode SAR. By treating the subject via the principles of signal processing, this book allows those individuals who are not schooled in the specialized and sometimes confusing language of radar imaging to gain accessibility to the critical ideas of SAR relatively quickly. An understanding of basic signal processing concepts (Fourier transforms, convolution, filtering, etc.) is the only required background. The first two chapters of the book develop a rigorous theoretical framework for spotlight mode SAR using a paradigm based on three-dimensional tomographic concepts. Following that, a chapter is devoted to the various signal processing steps that are required for robust spotlight mode image formation via the polar reformatting algorithm. Numerous examples, derived from simulated as well as real spotlight mode imagery, are employed to clearly demonstrate the important concepts. Chapter 4 then discusses the effects of phase errors on spotlight

mode SAR imagery and describes various algorithms for automatic phase error correction also known as autofocus The widely used technique of Phase Gradient Autofocus PGA is analyzed in depth and a variety of results from actual SAR imagery are shown The final chapter discusses the subject of interferometry from spotlight mode SAR imagery This important topic is currently the subject of extensive research and development efforts across the international SAR community Spotlight mode Synthetic Aperture Radar A Signal Processing Approach is intended for a variety of audiences Engineers and scientists working in the field of remote sensing but who do not have experience with SAR imaging will find an easy entrance into what can seem at times a very complicated subject Experienced radar engineers will find that the book describes several modern areas of SAR processing that they might not have explored previously e g interferometric SAR for change detection and terrain elevation mapping or modern non parametric approaches to SAR autofocus Senior undergraduates primarily in electrical engineering who have had courses in digital signal and image processing but who have had no exposure to SAR will find the book useful as a reference

**BOOK JACKET      Introduction to Synthetic Aperture Radar Using Python and MATLAB®** Lee Andrew (Andy) Harrison,2022-08-31 This comprehensive introduction to synthetic aperture radar SAR is a practical guide to the analysis simulation and design of SAR systems The video eBook uses constructive examples and real world collected datasets to demonstrate image registration and autofocus methods Both two and three dimensional image formation algorithms are presented Hardware software and environmental parameters are used to estimate performance limits for SAR operation and utilization A set of Python and MATLAB software tools is included and provides you with an effective mechanism to analyze and predict SAR performance for various imaging scenarios and applications Examples which use the software tools are provided at the end of each chapter to reinforce critical SAR imaging topics such as clutter to noise ratio mapping rate spatial resolution Doppler bandwidth pulse repetition frequency and coherency This is an excellent resource for engineering professionals working in areas of radar signal processing and imaging as well as students interested in studying SAR

*Radar Imaging for Maritime Observation* Fabrizio Berizzi,Marco Martorella,Elisa Giusti,2018-01-24 Based on the experiences of the Department of Information Engineering of the University of Pisa and the Radar and Surveillance System RaSS national laboratory of the National Interuniversity Consortium of Telecommunication CNIT Radar Imaging for Maritime Observation presents the most recent results in radar imaging for maritime observation The book explores both the areas of sea surface remote sensing and maritime surveillance providing key theoretical concepts of SAR and ISAR imaging and more advanced and ad hoc techniques for applications in maritime scenarios The book is organized in two sections The first section discusses the fundamentals of standard SAR ISAR processing and novel imaging techniques such as Bistatic Passive and 3D Interferometric ISAR The second section focuses on the applications and results obtained by processing real data from maritime observations like SAR image processing for oil spill detection in SAR images and fractal analysis Useful to both beginners and experts in maritime observation this book

provides several examples of mainly space borne radar imaging of maritime targets Nevertheless the same principles and techniques apply to the case of manned or unmanned carriers and to ground and air moving targets Study on Ground Moving Target Indication and Imaging Technique of Airborne SAR Jian Yang,2017-01-09 Based on a detailed analysis of the signal model of the moving target this thesis focuses on the theories and applications of ground moving target indicator GMTI and ground moving target imaging GMTIm algorithms in synthetic aperture radar ground moving target indicator SAR GMTI mode wide area surveillance ground moving target indication WAS GMTI mode and frequency modulated continuous wave synthetic aperture radar FMCW SAR systems The proposed algorithms can not only indicate and image fast moving targets but are also effective in the context of slow moving target processing The system design scheme combines the mechanical scanning mode and the airborne SAR system while the azimuth moving target indication algorithm employs the additional range walk migration induced by FMCW SAR systems In addition the non ideal errors that deteriorate the performance of GMTIm algorithms in real SAR data processing are discussed and suitable compensation methods are provided **High-Resolution Microwave Imaging** Ruliang Yang,Haiying Li,Shiqiang Li,Ping Zhang,Lulu Tan,Xiangwu Gao,Xueyan Kang,2017-12-13 This book comprehensively describes high resolution microwave imaging and super resolution information processing technologies and discusses new theories methods and achievements in the high resolution microwave imaging fields Its chapters which include abundant research results and examples systematically summarize the authors main research findings in recent years The book is intended for researchers engineers and postgraduates in the fields of electronics systems signal information processing and data analysis microwave remote sensing and microwave imaging radar as well as space technology especially in the microwave remote sensing and airborne or space borne microwave imaging radar fields **Encyclopedia of Optical Engineering: Pho-Z, pages 2049-3050** Ronald G. Driggers,2003 Compiled by 330 of the most widely respected names in the electro optical sciences the Encyclopedia is destined to serve as the premiere guide in the field with nearly 2000 figures 560 photographs 260 tables and 3800 equations From astronomy to x ray optics this reference contains more than 230 vivid entries examining the most intriguing technological advances and perspectives from distinguished professionals around the globe The contributors have selected topics of utmost importance in areas including digital image enhancement biological modeling biomedical spectroscopy and ocean optics providing thorough coverage of recent applications in this continually expanding field *International Encyclopedia of Geography, 15 Volume Set* Noel Castree,Michael F. Goodchild,Audrey Kobayashi,Weidong Liu,Richard A. Marston,2017-03-20 Zweifelsohne das Referenzwerk zu diesem weitgef cherten und dynamischen Fachgebiet The International Encyclopedia of Geograph ist das Ergebnis einer einmaligen Zusammenarbeit zwischen Wiley und der American Association of Geographers AAG beleuchtet und definiert Konzepte Forschung und Techniken in der Geographie und zugeh rigen Fachgebieten Die Enzyklop die ist als Online Ausgabe und 15 b ndige farbige Printversion erh ltlich Unter der Mitarbeit einer Gruppe von Experten aus aller Welt

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Fundamentals of Radar Signal Processing, Second Edition Mark A. Richards, 2013-12-02 The most complete current guide to the signal processing techniques essential to advanced radar systems Fully updated and expanded Fundamentals of Radar Signal Processing Second Edition offers comprehensive coverage of the basic digital signal processing techniques and technologies on which virtually all modern radar systems rely including target and interference models matched filtering waveform design Doppler processing threshold detection and measurement accuracy The methods and interpretations of linear systems filtering sampling and Fourier analysis are used throughout to provide a unified tutorial approach End of chapter problems reinforce the material covered Developed over many years of academic and professional education this authoritative resource is ideal for graduate students as well as practicing engineers Fundamentals of Radar Signal Processing Second Edition covers 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 *Proceedings*, 2004 *Principles and Applications of RELAX: A Robust and Universal Estimator* Renbiao Wu, Qiongqiong Jia, Lei Yang, Qing Feng, 2019-03-27 The multiple signal demixing and parameter estimation problems that result from the impacts of background noise and interference are issues that are frequently encountered in the fields of radar sonar communications and navigation Research in the signal processing and control fields has always focused on improving the estimation performance of parameter estimation methods at low SNR and maintaining the robustness of estimations in the presence of model errors This book presents a universal and robust relaxation estimation method RELAX and introduces its basic principles and applications in the fields of classical line spectrum estimation time of delay estimation DOA estimation and radar target imaging This information is explained comprehensively and in great detail and uses metaphors pertaining to romantic relationships to visualize the basic problems of parameter estimation the basic principles of the five types of classical parameter estimation methods and the relationships between these principles The book serves as a reference for scientists and technologists in the fields of signal processing and control while also providing relevant information for graduate students in the related fields

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 Introduction to Synthetic Aperture Radar: Concepts and Practice E. David Jansing, 2021-04-23 Explore the principles and applications of synthetic aperture radar This comprehensive guide offers a solid grounding in synthetic aperture radar SAR fundamentals and techniques Written by a remote sensing and signal processing expert *Introduction to Synthetic Aperture Radar Concepts and Practice* clearly explains data collection image formation error correction and image quality You will get concise descriptions of commonly used image formation algorithms including the Range Doppler Algorithm RDA and the Polar Formatting Algorithm PFA Continuous wave LFM systems interferometry polarimetry and moving objects are discussed in

detail Coverage includes Origins of synthetic aperture radar Ranging and imaging Image formation and image processing tools Linear frequency modulated chirp Image formation algorithms for quadrature demodulated data Image formation algorithms for dechirped data Autofocus Image quality and speckle reduction Linear frequency modulated continuous wave systems Remote sensing Interferometry Moving objects in SAR **Algorithms for Synthetic Aperture Radar Imagery X** Edmund G. Zelnio, Frederick D. Garber, 2003 **Journal of the Optical Society of America**, 2000 Advanced Pattern Recognition Techniques North Atlantic Treaty Organization. Research and Technology Organization, 1998 Pattern recognition is the extraction of consistent information from noisy spatiotemporal data It can be and is currently being used in systems for battlefield supervision smart weapons and anti counterfeiting of all kinds A current application is the automatic detection of land mines and unexploded ordnance UXO The methods employed can be subdivided in the following manner 1 statistical methods 2 neuro methods 3 fuzzy methods and 4 neuro fuzzy methods Each of these methods has its special advantages and drawbacks but all of them require the computation of feature variables from measurement or simulation data e g from microwave backscattering The Lecture series covers the following topics 1 Introductory overview on pattern recognition techniques 1 4 2 Feature extraction for pattern recognition by a Electromagnetic magnetic and acoustic singularity identification b Model based scattering signatures c Wavelet techniques d SAR ISAR imaging e Bistatic microwave imaging and f Electromagnetic inversion techniques 3 Real time implementation of pattern recognition methods and 4 Introduction to software and hardware for pattern recognition *Atmospheric Propagation* Cynthia Y. Young, John S. Stryjewski, 2003 **SAR Image Analysis, Modeling and Techniques**, 2002

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