

[Michael C. Wicks, Muralidhar Ranganawamy, Raviraj Adve, and Todd B. Hale]



# Space-Time Adaptive Processing

[A knowledge-based perspective for airborne radar]

**T**his article provides a brief review of radar space-time adaptive processing (STAP) from its inception to state-of-the-art developments. The topic is treated from both intuitive and theoretical aspects. A key requirement of STAP is knowledge of the spectral characteristics underlying the interference scenario of interest. However, these are seldom known in practice and must be estimated using training data. The collection of training data in a given scenario is limited by the scale of change of the interference phenomenon with respect to space and time as well as by system considerations such as bandwidth. Increasingly complex interference scenarios give rise to stressful conditions of training support, and the choice of training data becomes a crucial component of the adaptive process. Additional issues of importance in STAP include the computational cost of the adaptive

algorithm as well as the ability to maintain a constant false alarm rate (CFAR) over widely varying interference statistics. This article addresses these topics, developing the need for a knowledge-based (KB) perspective.

Signal detection using adaptive processing in spatial and temporal domains offers significant benefits in a variety of applications including radar, sonar, satellite communications, and seismic systems [1]. The focus here is on signal processing for radar systems using multiple antenna elements that coherently process multiple pulses. An adaptive array of spatially distributed sensors, which processes multiple temporal snapshots, overcomes the directivity and resolution limitations of a single sensor. Specifically, using STAP, i.e., joint adaptive processing in the spatial and temporal domains, creates an ability to suppress interfering signals while simultaneously preserving gain on the

# Adaptive Space Time Processing For Airborne Radar

**Nicholas J. Willis, Hugh D. Griffiths**



## **Adaptive Space Time Processing For Airborne Radar:**

**Adaptive Space-Time Processing for Airborne Radar**, 1996 Significant enhancements have been made to MITRE S computer simulation and processing capability for predicting the performance of airborne phased array radars and for applying algorithms using space time adaptive processing STAP to suppress interference signals received by these radars The enhancements include adding elevation degrees of freedom and near field scattering effects to the steady state simulation providing options to transform measured data and to process it in various combinations of spatial and temporal domains and adding a graphical user interface that is applicable across computer platforms These enhancements will provide the capability and flexibility needed for the effective application of the simulations to current and planned programs e g Rome Laboratory s Multichannel Airborne Radar Measurements program

**Space-Time Adaptive Processing for Radar, Second Edition** J.R. Guerci, 2014-11-01 Space time adaptive processing STAP is an exciting technology for advanced radar systems that allows for significant performance enhancements over conventional approaches Based on a time tested course taught in industry government and academia this second edition reviews basic STAP concepts and methods placing emphasis on implementation in real world systems It addresses the needs of radar engineers who are seeking to apply effective STAP techniques to their systems and serves as an excellent reference for non radar specialists with an interest in the signal processing applications of STAP Engineers find the analysis tools they need to assess the impact of STAP on a variety of important radar applications A toolkit of STAP algorithms and implementation techniques allows practitioners the flexibility of adapting the best methods to their application In addition this second edition adds brand new coverage on STAP on Transmit and Knowledge Aided STAP KA STAP

**Space Time Adaptive Processing for Airborne Radar** Sreeveena Dontharaju, 2001 *Space-time Adaptive Processing for Airborne Radar* James Ward, 1994 *Space-time Adaptive Processing* Richard Klemm, 1998 This is a systematic introduction to airborne MTI radar design in use in the fields of earth observation surveillance and reconnaissance with particular regard to the suppression of clutter returns It explores signal processing techniques jamming and system applications including sonar *Principles of Radar and Sonar Signal Processing* Chevalier François Le, 2002 *Advances in Bistatic Radar* Nicholas J. Willis, Hugh D. Griffiths, 2007-06-30 This comprehensive reference updates bistatic and multistatic radar developments since the publication of Nicholas Willis seminal book *Bistatic Radar* published in 1991 and revised in 1995 The book is organized into two major sections Bistatic Multistatic Radar Systems and Bistatic Clutter and Signal Processing New and recently declassified military applications are documented Civil applications are detailed for the first time including commercial and scientific systems Several of the most honored radar engineers of this era provide expertise in each of these applications Professionals in radar and sonar will find this book a valuable resource

**Design Technology of Synthetic Aperture Radar** Jiaguo Lu, 2019-08-07 An authoritative work on Synthetic Aperture Radar system engineering with key focus on high resolution imaging moving target indication

and system engineering technology Synthetic Aperture Radar SAR is a powerful microwave remote sensing technique that is used to create high resolution two or three dimensional representations of objects such as landscapes independent of weather conditions and sunlight illumination SAR technology is a multidisciplinary field that involves microwave technology antenna technology signal processing and image information processing The use of SAR technology continues grow at a rapid pace in a variety of applications such as high resolution wide swath observation multi azimuth information acquisition high temporal information acquisition 3 D terrain mapping and image quality improvement Design Technology of Synthetic Aperture Radar provides detailed coverage of the fundamental concepts theories technology and design of SAR systems and sub systems Supported by the author s over two decades of research and practice experience in the field this in depth volume systematically describes SAR design and presents the latest research developments Providing examination of all topics relevant to SAR from radar and antenna system design to receiver technology and signal and image information processing this comprehensive resource Provides wide ranging up to date examination of all major topics related to SAR science systems and software Includes guidelines to conduct grounding system designs and analysis Offers coverage of all SAR algorithm classes and detailed SAR algorithms suitable for enabling software implementations Surveys SAR and computed imaging literature of the last sixty years Emphasizes high resolution imaging moving target indication and system engineering Design Technology of Synthetic Aperture Radar is indispensable for graduate students majoring in SAR system design microwave antenna signal and information processing as well as engineers and technicians involved in SAR system techniques

*2001 CIE International Conference on Radar Proceedings* Shunjun Wu,2001

**Scientific and Technical Aerospace Reports**,1995

**Principles of Space-Time Adaptive Processing** Richard Klemm,2006-11-28 This book presents a systematic introduction to airborne MTI moving target indication system design for use in the fields of earth observation surveillance and reconnaissance with particular regard to the suppression of clutter returns New developments in the field and special aspects of airborne MTI radar are also covered

**The Record of the IEEE ... International Radar Conference**,1995

**Applications of Space-Time Adaptive Processing** Richard Klemm,Institution of Electrical Engineers,2004-08-13 This text discusses various applications of space time adaptive processing including applications in OTH radar ground target tracking STAP in real world clutter environments jammer cancellation superresolution active sonar seismics and communications It is divided into two parts the first dealing with the classical adaptive suppression of airborne and spacebased radar clutter and the second comprising of miscellaneous applications in other fields such as communications underwater sound and seismics

**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

*Fundamentals of Radar Signal Processing* Mark A. Richards, 2005-06-24 This rigorous text provides in depth coverage of radar signal processing from a DSP perspective filling a gap in the literature There are a number of good books on general radar systems Skolnik and Nathanson are the most popular There are also good monographs on advanced and specialty topics like synthetic aperture imaging But there is a large practical gap between the qualitative system books and the advanced DSP titles and that is the slot this book fills IEEE International Symposium on Phased Array Systems and Technology, 2003 Proceedings, 2004 Radar 2002, 2002 A collection of the papers given at the RADAR Conference held in 2002 *Radar Sensor Technology*, 1999 Science in China, 1997

The book delves into Adaptive Space Time Processing For Airborne Radar. Adaptive Space Time Processing For Airborne Radar is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Adaptive Space Time Processing For Airborne Radar, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 4: Adaptive Space Time Processing For Airborne Radar in Specific Contexts
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  4. In chapter 3, this book will examine the practical applications of Adaptive Space Time Processing For Airborne Radar in daily life. The third chapter will showcase real-world examples of how Adaptive Space Time Processing For Airborne Radar can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Adaptive Space Time Processing For Airborne Radar in specific contexts. The fourth chapter will explore how Adaptive Space Time Processing For Airborne Radar is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Adaptive Space Time Processing For Airborne Radar. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Adaptive Space Time Processing For Airborne Radar.

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