

[Michael C. Wicks, Muralidhar Ranganarwamy, 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

**Mark A. Richards**



## **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

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**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

[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

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**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

**IEEE International Symposium on Phased Array Systems and Technology** ,2003

**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

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**Science in China** ,1997

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## **Table of Contents Adaptive Space Time Processing For Airborne Radar**

1. Understanding the eBook Adaptive Space Time Processing For Airborne Radar
  - The Rise of Digital Reading Adaptive Space Time Processing For Airborne Radar
  - Advantages of eBooks Over Traditional Books
2. Identifying Adaptive Space Time Processing For Airborne Radar
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Adaptive Space Time Processing For Airborne Radar
  - User-Friendly Interface
4. Exploring eBook Recommendations from Adaptive Space Time Processing For Airborne Radar
  - Personalized Recommendations
  - Adaptive Space Time Processing For Airborne Radar User Reviews and Ratings
  - Adaptive Space Time Processing For Airborne Radar and Bestseller Lists
5. Accessing Adaptive Space Time Processing For Airborne Radar Free and Paid eBooks

- Adaptive Space Time Processing For Airborne Radar Public Domain eBooks
  - Adaptive Space Time Processing For Airborne Radar eBook Subscription Services
  - Adaptive Space Time Processing For Airborne Radar Budget-Friendly Options
6. Navigating Adaptive Space Time Processing For Airborne Radar eBook Formats
    - ePub, PDF, MOBI, and More
    - Adaptive Space Time Processing For Airborne Radar Compatibility with Devices
    - Adaptive Space Time Processing For Airborne Radar Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Adaptive Space Time Processing For Airborne Radar
    - Highlighting and Note-Taking Adaptive Space Time Processing For Airborne Radar
    - Interactive Elements Adaptive Space Time Processing For Airborne Radar
  8. Staying Engaged with Adaptive Space Time Processing For Airborne Radar
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Adaptive Space Time Processing For Airborne Radar
  9. Balancing eBooks and Physical Books Adaptive Space Time Processing For Airborne Radar
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Adaptive Space Time Processing For Airborne Radar
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Adaptive Space Time Processing For Airborne Radar
    - Setting Reading Goals Adaptive Space Time Processing For Airborne Radar
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Adaptive Space Time Processing For Airborne Radar
    - Fact-Checking eBook Content of Adaptive Space Time Processing For Airborne Radar
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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