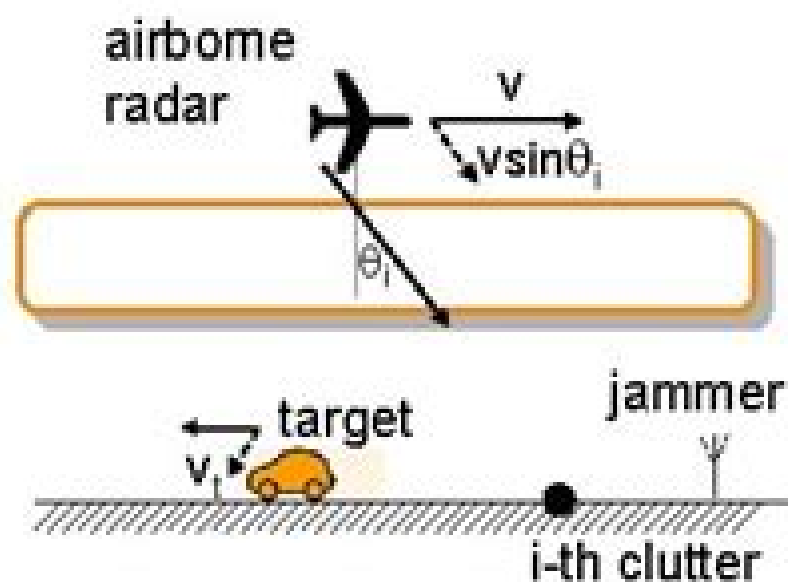


Space-Time Adaptive Processing

The adaptive techniques for processing the data from airborne antenna arrays are called **space-time adaptive processing (STAP)**.



$$f_{Di} = \frac{2v \sin \theta_i}{c} f$$

The clutter Doppler frequencies depend on angles. So, the problem is **non-separable** in **space-time**.

Adaptive Space Time Processing For Airborne Radar

Chevalier François Le



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 Airborne Radar** Sreeveena Dontharaju, 2001 *Space-time Adaptive Processing for Airborne Radar* James Ward, 1994

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 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 **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 *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 *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 Knowledge Base Applications to Adaptive Space-Time Processing, Volume 2: Airborne Radar Filtering ,2001 There are many variations of space time adaptive processing STAP that have been proposed since as far back as the 1960s Practically all of the variations can be grouped into eight general methods These methods are described in this report An interesting discussion on the relative merits of the methods and of STAP in general is also included Contentions are backed up by results from applying STAP to measured data The merits identified in this report are used later Volume III to derive rules for a knowledge based space time adaptive processing system **The Record of the IEEE ... International Radar Conference** ,1995 *Space-time Adaptive Processing for Airborne Surveillance Radar Systems* Martien Binonwangan, 2003 **An Application of Space-time Adaptive Processing to Airborne and Spaceborne Monostatic and Bistatic Radar Systems** Richard James Czernik, 2010 **Proceedings** ,2004 **IEEE International Symposium on Phased Array Systems and Technology** ,2003 *Radar 2002* ,2002 A collection of the papers given at the RADAR Conference held in

2002 **Conference Record** ,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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