Spacetime Adaptive Processing For Radar

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Space-time adaptive processing is a signal processing technique most commonly used in radar systems. It involves adaptive array processing algorithms to aid in target detection. Radar signal processing benefits from STAP in areas where interference is a problem. Through careful application of STAP, it is possible to achieve order-of-magnitude sensitivity improvements in target detection. STAP involves a two-dimensional filtering technique using a phased-array antenna with multiple spatial channe

Space-time adaptive processing - Wikipedia
Space-time adaptive processing (STAP) is a technology for advanced radar systems that allows for significant performance enhancements over conventional approaches. Based on a course taught in industry, government and academia, this is a practical introduction to STAP

concepts and methods, placing emphasis on implementation in real-world systems.

Space-Time Adaptive Processing for Radar (Radar Library ...
Space-time adaptive processing (STAP) is an important radar technology. It is a cornerstone in the design of modern moving target indication and imaging radar systems. Specifically, STAP is a multidimensional filtering technique that mitigates the influence of clutter or radio frequency interference on principal radar products, viz. radar detections or images.

Space-Time Adaptive Processing for Radar - ScienceDirect
Space-time adaptive processing for airborne radar. Abstract: Advanced airborne radar systems are required to detect targets in the presence of both clutter and jamming. Ground clutter is extended in both angle and range, and is spread in Doppler frequency because of the platform motion. Space-time adaptive processing (STAP) refers to the simultaneous processing of the signals from an array antenna during a multiple pulse coherent waveform.

Space-time adaptive processing for airborne radar - IET ...
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A technique called space time adaptive processing (STAP) can be used to find targets that could otherwise not be detected. Because the jammer is transmitted continuously, its energy is present in all the range bins. And, as shown in Figure 1, the jammer cuts across the all Doppler frequency bins due to its wideband, noise-like nature.

Radar Basics – Part 4: Space-time adaptive processing | EE ...
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.

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Space-Time Adaptive Processing (STAP) is an advanced signal processing methodology for the Ground Moving Target Indication (GMTI) mode of airborne and spaceborne surveillance radar systems. It is used to mitigate motion-induced spread-Doppler clutter that interferes with the echo from ground targets.

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Space-time Adaptive Processing for Radar by J. R. Guerci ...
J. R. Guerci Written for engineers familiar with radar, electromagnetics and signal processing, this book establishes basic first order space-time models for clutter and jamming, details important second order and higher effects, and introduces modern space-time adaptive processing (STAP) algorithms.

Space-time adaptive processing for radar | J. R. Guerci ...
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Spacetime Adaptive Processing For Radar [EPUB]
Space–time adaptive processing (STAP) is a crucial technique for the new generation airborne radar with high air-to-ground performance. The authors study this technique applied to airborne early warning (AEW) radars with various array orientations, which include the sideways

looking array radar (SLAR) and non-sideways looking array radar.

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STAP techniques filter the signal in both the angular and Doppler domains (thus, the name "space-time adaptive processing") to suppress the clutter and jammer returns. In the following sections, we simulate returns from target, clutter, and jammer and illustrate how STAP techniques filter the interference from the received signal.

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