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Design Principles of MIMO Radar Detectors. Abstract: This paper considers the problem of multiple-input multiple-output (MIMO) radars employing space-time coding (STC) to achieve diversity. To this end, after briefly outlining the model of the received echo, a suitable detection structure is derived, and its performance is expressed in closed form as a function of the clutter statistical properties and of the space-time code matrix.

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radio detection and ranging. The early purpose of a radar was to detect the presence of a target and measure its range by transmitting radio waves. Modern radars not only detect target and measure distances, but they also have the capability of locating, imaging, and identifying targets. A typical radar ...

Modern Radar - an overview | ScienceDirect Topics

FMCW radar is less affected by the noise in comparison to impulse radars.

2.1 FMCW radar basics In any radar, the electromagnetic wave is sent into the environment containing various objects. Then the echo of the wave is captured at a receiver. A simplified block diagram of such a system is shown in Fig. 1 in which both the

FMCW Radar System - University of Waterloo

Examples of MIMO Systems; Principles of MIMO Wireless Communication
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Performance of ZF Receiver; Transmit Beamforming in MISO Systems; Alamouti Code and Space-Time Block Codes; BER of Alamouti Coded System; Singular Value Decomposition (SVD) SVD in MIMO; Principles of OFDM Wireless Communication. Capacity of MIMO ...

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Principles of Modern Radar: Advanced Techniques (POMR:AT) builds on the foundation of POMR: Basic Principles and FRSP to explore advanced methods in waveforms, imaging, and adaptive processing; emerging techniques such as MIMO radar and compressive sensing, and a variety of special topics.

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As is hopefully evident from this chapter, analysis of the utility of MIMO techniques for a particular radar application may not be straightforward. It should also be clear that transmitting orthogonal waveforms is not advantageous in every situation. The primary goal of this chapter has been to provide a framework for evaluating the appropriateness of a particular suite of MIMO waveforms for ...

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Lecture 34: Multiple Input Multiple Output (MIMO) Systems

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