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Principals of Modern Radar is the first in a series, covering basic radar concepts, radar signal characteristics, radar subsystems, and basic radar signal processing. This text is the second in the series and contains advanced techniques, including the most recent developments in the radar community. Specifically, much of Principles of Modern Radar: Advanced Techniques discusses radar signal processing methods essential to the success of current and future radar systems.

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The IET Shop - Principles of Modern Radar

Principles of Modern Radar. : Mark A. Richards, James A. Scheer, William L. Melvin, Jim Scheer. Institution of Engineering and Technology, Oct 16, 2012 - Technology & Engineering - 874 pages. 0...

Principles of Modern Radar: Advanced Techniques, Volume 2 ...

Design Principles of MIMO Radar Detectors. Abstract: This paper considers the problem of multiple-input multiple-output (MIMO) radars employing space-

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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.

Design Principles of MIMO Radar
Detectors - IEEE Journals ...

Radar is constructed from the words 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 consists of a transmitter, an antenna, a receiver, a signal processor, and a display.

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Radar Simulate End-to-End Radar System.

Radar systems analysis and design using

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Principles of Modern Radar focuses on four key areas: Basic concepts, such as the the radar range equation and threshold detection; Radar signal phenomenology, such as radar cross section models, clutter, atmospheric effects, and Doppler effects

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The primary goal of this chapter has been to provide a framework for evaluating the appropriateness of a particular suite of MIMO waveforms for a specific radar mission. This is necessary to decide if performance will be enhanced by using a MIMO radar instead of a traditional phased array configuration.

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"Principles of Modern Radar" ("POMR"), co-edited by Dr. Mark Richards, Dr. Bill Holm and Mr. Jim Scheer, is a two-volume set providing comprehensive coverage of the fundamentals of modern radar technology.

Principles of Modern Radar: Basic

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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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