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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...

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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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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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Modern Radar - an overview | ScienceDirect Topics

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The primary goal of this chapter has been to provide a framework for

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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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The IET Shop - Principles of Modern Radar

"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.

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Principles of Modern Radar: Basic Principles v. 1 (Radar ...  
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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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