

Fundamentals Of Radar Signal Processing

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Fundamentals of Radar Signal Processing (Richards, M.A.; 2005) [Book review] Abstract: This book introduces the fundamental concepts of radar by building upon digital signal processing concepts. It provides a thorough covering of all of the basic radar topics, in addition to more advanced topics, such as CFAR detection, synthetic aperture radar (SAR), and space-time adaptive processing (STAP).

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About the Book Fundamentals of Radar Signal Processing (FRSP) provides in-depth coverage of fundamental topics in radar signal processing from a digital signal processing perspective. The techniques of linear systems, filtering, sampling, and Fourier analysis techniques and interpretations are used throughout to provide a modern and unified tutorial approach.

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Radar Signal Processor The signal processor is that part of the system which separates targets from clutter

on the basis of Doppler content and amplitude characteristics. In modern radar sets the conversion of radar signals to digital form is typically accomplished after IF amplification and phase sensitive detection.

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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.

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In radar signal processing applications, matched filter banks are used for both wave compression and as optimum receivers to find the delay and the Doppler shift [1]. In radar systems, having ...

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With radar signal processing is referred the part that is still dealing with the analog (or often present even as a digital value) magnitude of the echo signal. The radar data processing is the part of processing, which concerns only the information about a target.

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Fundamentals of radar signal processing mark a. richards. Resolution is the ability of a radar to resolve (distinguish) between two or more targets on the same bearing but at different ranges Range cell (or) Resolution cell is smallest range increment the radar is capable of detecting. If the radar has a range resolution of 50 yards and a total range of 60000 yards there are $60000/50=1200$ range cells.

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