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techniques of linear systems, filtering, sampling, and Fourier analysis techniques and interpretations are used throughout to provide a modern and unified tutorial approach.

Radar Basics - Radar Signal
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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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Fundamentals of Synthetic Aperture

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Description Synthetic aperture radar (SAR) imaging has become a mature technology for remote sensing and tactical and strategic surveillance in both commercial and defense

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applications because of its ability to combine high-resolution two- and three-dimensional mapping with all-weather visibility.

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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

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resolution of 50 yards and a total
range of 60000 yards there are
 $60000/50=1200$ range cells.

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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

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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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How You Will Benefit Learn the principles and objectives of basic signal processing methods fundamental to all radars. Understand interference suppression methods for noise, clutter, and jamming. Evaluate

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radar signal processing algorithm
performance and limitations. Develop
a strong foundation ...

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Radar Signal Processor The signal
processor is that part of the system

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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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offers comprehensive coverage of the
basic digital signal processing

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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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