

# Fundamentals Of Radar Signal Processing

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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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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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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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Written for graduate engineering students and working professionals seeking enhanced skills and career advancement, mark richard's fundamentals of radar signal processing provides clear, modern instruction in radar dsp basics and the skills needed in both design and analysis of common radar algorithms.

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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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All in all, starting with the basics, this book by Richards is a pretty thorough coverage of Radar Signal Processing. If one wants to understand radar from a DSP perspective, first read Skolnik's "Introduction To Radar Systems" to get a basic understanding of how radar works. Then read this book by Richards to understand radar DSP.

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Fundamentals of Synthetic Aperture Radar Signal Processing Course Description Synthetic aperture radar (SAR) imaging has become a mature technology for remote sensing and tactical and strategic surveillance in both commercial and defense applications because of its ability to combine high-resolution two- and three-dimensional mapping with all-weather visibility.

### **Radar Basics - Radar Signal Processing**

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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