

## Radar Signal Analysis And Processing Using Matlab

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### Radar signal analysis and processing using MATLAB

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.

### Radar Basics - Radar Signal Processor

2.6.1. The Analytic Signal (Pre-Envelope) 95 2.6.2. Pre-Envelope and Complex Envelope of Bandpass Sig nals 96 2.7. Spectra of a Few Common Radar Signals 99 2.7.1. Frequency Modulation Signal 99 2.7.2. Continuous Wave Signal 104 2.7.3. Finite Duration Pulse Signal 104 2.7.4. Periodic Pulse Signal 106 2.7.5. Finite Duration Pulse Train Signal 107 2.7.6.

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■ The resolution of radar is its ability to distinguish between targets that are in very close proximity. ■ The range resolution  $\Delta R$  of a radar is:  $\Delta R = \frac{c}{2B}$  ■ Sorter pulses will have higher bandwidth, leading to better resolution.

### Christos Iloudis University of Strathclyde

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