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MATLAB and Simulink are the only tools that provide the necessary support for signal processing algorithm development and sound field analysis, modeling and simulation of sonar design, and embedded code generation for implementing the design on digital hardware.

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Documentation - MATLAB & Simulink

Sonar Signal Processing I -

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Although I am not an expert programmer, MATLAB® enabled me to apply my expertise in signal processing and sonar to develop and deploy SonarScope®, a high-performance software product for processing, analyzing, and visualizing raw MBES data. SonarScope is highly customizable and provides an original approach to MBES data processing, making it an invaluable

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Toolbox for researchers and engineers ...

Developing and Deploying Sonar and ... - MATLAB & Simulink

Signal Processing Toolbox™ provides functions and apps to analyze, preprocess, and extract features from uniformly and nonuniformly sampled signals. The toolbox includes tools for filter design and analysis, resampling, smoothing, detrending, and power spectrum estimation. The toolbox also provides functionality for extracting features like changepoints and envelopes, finding peaks and signal patterns, quantifying signal similarities, and performing measurements such as SNR and distortion.

Get Started with Signal Processing Toolbox

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- Digital signal processing concepts and techniques
- Adaptive signal processing or beamforming
- Post-detection signal processing (e.g. classification, tracking)
- Random variable theory, stochastic processes
- Sonar implementation concepts (covered in a separate course):
 - Detailed transmitter/receiver block diagram

Sonar Signal Processing I

Learn the basics of Signal Processing Toolbox. Signal Analysis and Visualization. Visualize, preprocess, and explore signals using Signal Analyzer app. Signal Generation and Preprocessing. Create, resample, smooth, denoise, and detrend signals. Measurements and Feature Extraction. Peaks, signal statistics, pulse and transition metrics, power,

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bandwidth, distortion. Transforms, Correlation, and Modeling

Signal Processing Toolbox - MATLAB & Simulink

This tutorial is meant for the students of E&TC, Electrical and Computer Science engineering. In addition, it should be useful for any enthusiastic reader who would like to understand more about various signals, systems, and the methods to process a digital signal. Prerequisites. Digital signal processing deals with the signal phenomenon.

Digital Signal Processing Tutorial - Tutorialspoint

This signal is formed by 4 pulses and the sampling period is 12 ns. Exercise 1. Plot one pulse in the time domain ($0 \leq t \leq \text{PRI}$) and in the frequency

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domain (showing the spectrum around ± 3 MHz). Highlight the Pulse Width (PW) in the time domain plot. Figure 1. Radar signal: 1 pulse. Figure 2. Radar signal: Fourier Transform of 1 pulse. Comment:

Radar Signals: Matlab Tutorial - Behind The Sciences

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Sonar systems are generally used underwater for range finding and detection. Active sonar emits an acoustic signal, or pulse of sound, into the water. The sound bounces off the target object and returns an “ echo ” to the sonar transducer. Unlike active sonar, passive sonar does not emit its own signal, which is

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an advantage for military vessels. But passive sonar cannot measure the range of an object unless it is used in conjunction with other passive listening devices. Multiple passive ...

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