

## **SIGNAL PROCESSING AND LINEAR SYSTEMS**



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**Signal processing Wikipedia**

Signal processing is a subfield of mathematics, information and electrical engineering that concerns the analysis, synthesis, and modification of signals, which are broadly defined as functions conveying "information about the behavior or attributes of some phenomenon", such as sound, images, and biological measurements. For example, signal processing techniques are used to improve signal

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**Digital signal processing Wikipedia**

The most common processing approach in the time or space domain is enhancement of the input signal through a method called filtering. Digital filtering generally consists of some linear transformation of a number of surrounding samples around the current sample of the input or output signal. There are various ways to characterize filters; for example:

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**Linear Systems DSP**

Chapter 5: Linear Systems. Most DSP techniques are based on a divide-and-conquer strategy called superposition. The signal being processed is broken into simple components, each component is processed individually, and the results reunited.

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**CHAPTER Linear Systems Digital signal processing**

88 The Scientist and Engineer's Guide to Digital Signal Processing Continuous System Discrete System  $x(t)$   $y(t)$   $x[n]$   $y[n]$  FIGURE 5-1 Terminology for signals and systems.

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**Signals Systems and Control Demonstrations**

Robust Stabilization A killer applet for the Robust Stabilization Theorem of linear control theory. Enter a nominal plant  $P(s)$ , and specify an uncertainty weighting function  $W(s)$  by dragging poles and zeros with the mouse. Then design a unity-feedback compensator  $C(s)$  by dragging poles and zeros to achieve closed-loop robust stability. Includes a Fine Print document that references further

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