



# Digital Signal Processing: An Overview of Basic Principles

*Jack Cartinhour*

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## **Digital Signal Processing: An Overview of Basic Principles** Jack Cartinhour

This book is the perfect source for those interested in learning the basic principles of digital signal processing. Features an exceptionally accessible writing style and emphasizes the theoretical aspects of digital signal processing. Explains how the coefficients of the discrete time system equation are selected in order to implement the desired "digital filter." Includes overview of the continuous time system theory—including coverage convolution, system impulse response, and the Fourier Transform. Illustrates the power of DSP by inclusion of a chapter on adaptive FIR filters using the LMS algorithm. Discusses oversampling, downsampling, upsampling, and introduces the theory of random signals and their associated power spectral density functions. For anyone wanting an easily-accessible, theoretical introduction to digital signal processing.

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