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Signals and Systems (Second Edition)

By Alan S. Willsky, Alan V. Oppenheim, S. Hamid Nawab

Pearson Education, 2015. Softcover. Condition: New. 2nd edition. For undergraduate-level courses in Signals and Systems. This comprehensive exploration of signals and systems develops continuous-time and discrete-time concepts / methods in parallel highlighting the similarities and differences and features introductory treatments of the applications of these basic methods in such areas as filtering, communication, sampling, discrete-time processing of continuous-time signals and feedback. Relatively self-contained, the text assumes no prior experience with system analysis, convolution, Fourier analysis or Laplace and z-transforms. Table of Contents 1. Signals and Systems Continuous-Time and Discrete-Time Signals Transformations of the Independent Variable Exponential and Sinusoidal Signals The Unit Impulse and Unit Step Functions Continuous-Time and Discrete-Time Systems Basic System Properties 2. Linear Time-Invariant Systems Discrete-Time LTI Systems - The Convolution Sum Continuous-Time LTI Systems - The Convolution Integral Properties of Linear Time-Invariant Systems Causal LTI Systems Described by Differential and Difference Equations Singularity Functions 3. Fourier Series Representation of Periodic Signals Historical Perspective The Response of LTI Systems to Complex Exponentials Fourier Series Representation of Continuous-Time Periodic Signals Convergence of the Fourier Series Properties of Continuous-Time Fourier Series Fourier Series Representation of Discrete-Time Periodic Signals Properties of Discrete-Time Fourier Series Fourier Series and LTI Systems Filtering Examples...


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