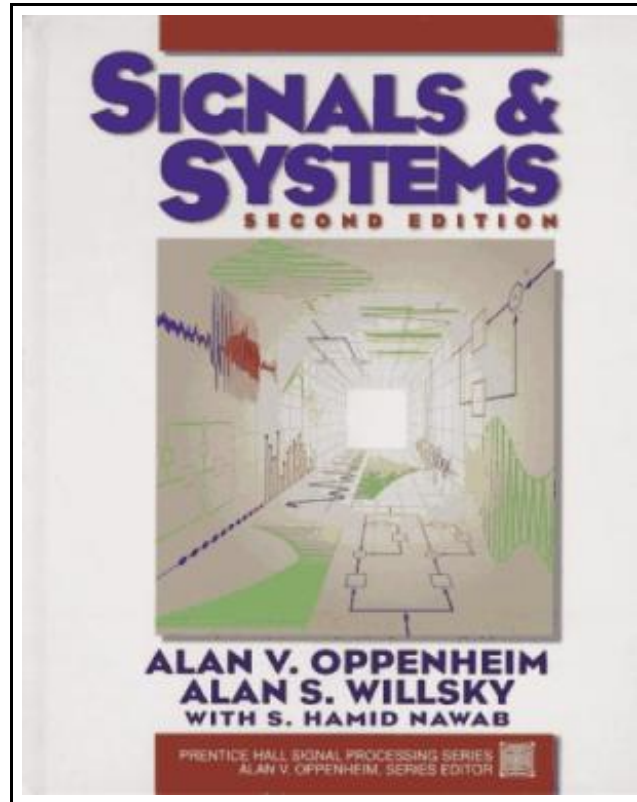# Signals and Systems (2nd Edition)

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Prentice Hall, 1996. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 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 book assumes no prior experience with system analysis, convolution, Fourier analysis, or Laplace and z-transforms. FEATURES: Develops continuous-time and discrete-time concepts in parallel -- highlighting the similarities and differences. E.g.: Ch. 1 on basic signals and system properties, Ch. 2 on linear time-invariant systems, and Ch. 3 on Fourier series representation each develop the continuous-time and discrete-time concepts in parallel. Ch. 9 on the Laplace Transform and Ch. 10 on the Z-transform deal with the two domains separately, but often draw parallels between results in the two domains. Introduces some of the important uses of the basic methods that are developed -- e.g., filtering, communication, sampling, discrete-time processing of continuous-time signals, and feedback. NEW--A companion book contains MATLAB-based computer exercises for each topic. NEW--Material on Fourier analysis has been reorganized significantly to provide an easier path for the reader to master and appreciate the importance of this topic. Now represented in four chapters, each of which is far more streamlined and focused, introducing a smaller and more cohesive set of topics. NEW--Frequency-domain filtering is introduced very early in the development to provide a central and concrete illustration of why this topic is important and to provide some intuition with a minimal amount of mathematical preliminaries. NEW--Relocates coverage of Sampling before Communication. * Allows for discussion of important forms of communication, namely those involving discrete or digital signals, in which sampling concepts are intimately involved. NEW--Chapter-end Problems They provide a better balance between...

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