

Signals and Systems: Principles and Applications

By Shaila Dinkar Apte

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This book provides a rigorous treatment of deterministic and random signals. It offers detailed information on topics including random signals, system modelling and system analysis. System analysis in frequency domain using Fourier transform and Laplace transform is explained with theory and numerical problems. The advanced techniques used for signal processing, especially for speech and image processing, are discussed. The properties of continuous time and discrete time signals are explained with a number of numerical problems. The physical significance of different properties is explained using real-life examples. To aid understanding, concept check questions, review questions, a summary of important concepts, and frequently asked questions are included. MATLAB programs, with output plots and simulation examples, are provided for each concept. Students can execute these simulations and verify the outputs.

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Editorial Review

About the Author
Shaila Dinkar Apte is a Professor at Rajarshi Shahu College of Engineering, Pune. She received her ME (Electronics) and PhD in Electronics Engineering from Walchand College of Engineering, under Shivaji University, Kolhapur. She is the author of Digital Signal Processing, Speech and Audio Processing and Advanced Digital Signal Processing, and has published a number of articles in national and international journals. She has a patent published to her credit related to the generation of a mother wavelet from the speech signal. She has over 34 years of experience in teaching and research. Her major areas of interest include signals and systems, digital signal processing and speech processing.

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