



Digital Signal Processing

By K. Raja Rajeswari

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This book provides a comprehensive treatment of DSP techniques commencing from an elementary level of sampling process. It covers topics like z-transforms, filter approximations, digital filters (both IIR & FIR), Discrete Fourier transforms (DFTs), Fast Fourier transforms (FFTs), filter realization techniques, Multirate Signal Processing, DSP Processors, DSP applications. At the end MATLAB programming is given on various DSP topics. The aim is to impart adequate knowledge to the undergraduate level students in DSP area. This book focuses on theoretical concepts and problem solving. Salient features: Provides basic knowledge of the subject, implementation and applications of the DSP techniques. Solved examples and problems for exercise. Theoretical concepts with mathematical illustrations. Insight to practical problems. Orientation to practical applications Knowledge about the design aspects for actual DSP systems for given specifications. Objective type questions with multiple choice pattern and key also has been provided. MATLAB examples and problems to provide hands-on experience. This book is intended for the B.E/B.Tech students of Electrical Engineering, Electronics and Communication Engineering, Computer Science and Engineering, Information Technology, Telecommunication Engineering and Biomedical Engineering. Contents: Sampling & Discrete Time Systems Z-Transforms Analog Filter Approximations IIR Filters FIR Filters Realization of Digital Filters The Discrete Fourier Transform Fast Fourier Transform Multirate Digital Signal Processing Digital Correlation Techniques Power Spectrum Estimation DSP Processors DSP Applications Digital Signal Processing with MATLAB. Audience: B.E & B. Tech. students of Electronics and Communication Engineering.

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