



Digital Signal Processing: A Practitioner's Approach

By Kaluri V. Rangarao, Ranjan K. Mallik

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Digital signal processing is essential for improving the accuracy and reliability of a range of engineering systems, including communications, networking, and audio and video applications. Using a combination of programming and mathematical techniques, it clarifies, or standardizes the levels or states of a signal, in order to meet the demands of designing high performance digital hardware.

Written by authors with a wealth of practical experience working with digital signal processing, this text is an excellent step-by-step guide for practitioners and researchers needing to understand and quickly implement the technology. Split into six, self-contained chapters, *Digital Signal Processing: A Practitioner's Approach* covers:

- basic principles of signal processing such as linearity, stability, convolution, time and frequency domains, and noise;
- descriptions of digital filters and their realization, including fixed point implementation, pipelining, and field programmable gate array (FPGA) implementation;
- Fourier transforms, especially discrete (DFT), and fast Fourier transforms (FFT);
- case studies demonstrating difference equations, direction of arrival (DoA), and electronic rotating elements, and MATLAB programs to accompany each chapter.

A valuable reference for engineers developing digital signal processing applications, this book is also a useful resource for electrical and computer engineering graduates taking courses in signal processing.



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Editorial Review

From the Back Cover

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Dr Rangarao is currently Vice President of Satyam Computer Services, Ltd, India working in the areas of embedded software development and telecoms. Before this post, he has had 14 years experience in industry working with applications of digital signal processing, software engineering, real-time systems, digital image processing and product development. He is also a senior member of IEEE, Chairman of the Computer Society of India and has had over 10 journal and conference papers published on the subjects of signal processing and software development.

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Dr Mallik is currently an Associate Professor in the Department of Electrical Engineering at the Indian Institute of Technology, Delhi. He has been teaching at the Institute since 1994 and is now conducting research in the areas of communication theory and systems, difference equations and linear algebra. He has had industry experience in the Defence Electronics Research Laboratory in India and has written over 60 journal and conference papers on digital signal processing and communication theory.

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