



Digital Signal Processing: A Practitioner's Approach

By Kaluri V. Rangarao, Ranjan K. Mallik

Download now

Read Online ➔

Digital Signal Processing: A Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik

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.

↓ [Download Digital Signal Processing: A Practitioner's A ...pdf](#)

📄 [Read Online Digital Signal Processing: A Practitioner's ...pdf](#)

Digital Signal Processing: A Practitioner's Approach

By Kaluri V. Rangarao, Ranjan K. Mallik

Digital Signal Processing: A Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik

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.

Digital Signal Processing: A Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik Bibliography

- Rank: #13287257 in Books
- Published on: 2006-01-09
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x .70" w x 6.30" l, .95 pounds
- Binding: Hardcover
- 191 pages

 [Download Digital Signal Processing: A Practitioner's A ...pdf](#)

 [Read Online Digital Signal Processing: A Practitioner's ...pdf](#)

Editorial Review

From the Back Cover

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.

About the Author

Dr Kaluri V. Rangarao, Satyam Computer Services Ltd, Satyam Technology Center, Bahadurpally, RR District 500043, Andhra Pradesh, India.

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.

Dr Ranjan K. Mallik, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology – Delhi, Hauz Khas, New Delhi 11016, India.

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.

Users Review

From reader reviews:

Tenesha Little:

Do you have favorite book? If you have, what is your favorite's book? Publication is very important thing for us to learn everything in the world. Each book has different aim as well as goal; it means that reserve has different type. Some people sense enjoy to spend their the perfect time to read a book. They are really reading whatever they have because their hobby is actually reading a book. Consider the person who don't like looking at a book? Sometime, individual feel need book once they found difficult problem or maybe exercise. Well, probably you should have this Digital Signal Processing: A Practitioner's Approach.

Elizabeth Hart:

This Digital Signal Processing: A Practitioner's Approach usually are reliable for you who want to be described as a successful person, why. The main reason of this Digital Signal Processing: A Practitioner's Approach can be one of many great books you must have is giving you more than just simple reading food but feed an individual with information that maybe will shock your before knowledge. This book is actually handy, you can bring it everywhere you go and whenever your conditions in the e-book and printed ones. Beside that this Digital Signal Processing: A Practitioner's Approach giving you an enormous of experience for instance rich vocabulary, giving you demo of critical thinking that we realize it useful in your day pastime. So , let's have it and luxuriate in reading.

Bernice Mignone:

Reading can called brain hangout, why? Because when you are reading a book particularly book entitled Digital Signal Processing: A Practitioner's Approach your mind will drift away trough every dimension, wandering in each aspect that maybe not known for but surely will become your mind friends. Imaging every word written in a e-book then become one form conclusion and explanation that maybe you never get ahead of. The Digital Signal Processing: A Practitioner's Approach giving you an additional experience more than blown away your thoughts but also giving you useful data for your better life with this era. So now let us teach you the relaxing pattern this is your body and mind will likely be pleased when you are finished reading it, like winning a casino game. Do you want to try this extraordinary paying spare time activity?

Cleora Yarbro:

Do you like reading a publication? Confuse to looking for your favorite book? Or your book was rare? Why so many problem for the book? But almost any people feel that they enjoy regarding reading. Some people likes reading through, not only science book but also novel and Digital Signal Processing: A Practitioner's Approach or maybe others sources were given know-how for you. After you know how the great a book, you feel need to read more and more. Science reserve was created for teacher or perhaps students especially. Those publications are helping them to increase their knowledge. In different case, beside science e-book, any other book likes Digital Signal Processing: A Practitioner's Approach to make your spare time much more colorful. Many types of book like this one.

**Download and Read Online Digital Signal Processing: A
Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik
#JOEUVW9TD0M**

Read Digital Signal Processing: A Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik for online ebook

Digital Signal Processing: A Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Digital Signal Processing: A Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik books to read online.

Online Digital Signal Processing: A Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik ebook PDF download

Digital Signal Processing: A Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik Doc

Digital Signal Processing: A Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik Mobipocket

Digital Signal Processing: A Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik EPub

JOEUVW9TD0M: Digital Signal Processing: A Practitioner's Approach By Kaluri V. Rangarao, Ranjan K. Mallik