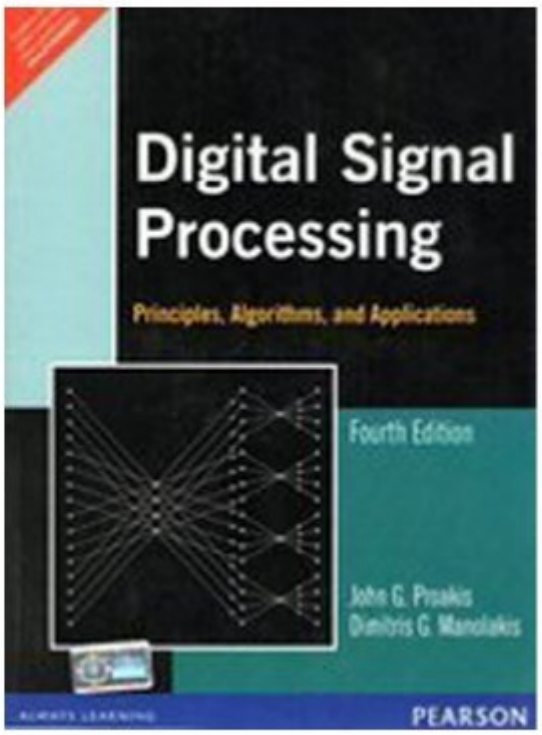
Digital Signal Processing, 4/e



Synopsis

Digital signal processing: principles, algorithms and applications is a computer textbook written by dimitris g manolakis and john g. Proakis.it is an introductory and basic textbook that covers fundamental topics such as discrete time signals, modern digital processing, and systems. Chapters include discrete-time signals and systems, frequency analysis of signals and systems, sampling and reconstruction of signals, efficient computaiton of the dft: fast fourier transform algorithms, design of digital filters, linear prediction and optimum linear filters, and power spectrum estimation. It also has chapters on the z-transform and its application to the analysis of lti systems, frequency domain analysis of lti systems, the discrete fourier transform: its properties and applications, implementation of discrete-time systems, multirate digital signal processing, and adaptive filters.digital signal processing: principles, algorithms and applications has over 500 homework problems for students to practice at home. The authors have updated the contents in this book, making it more relevant. There is a new addition on the discrete cosine transform and an improved chapter on multirate digital signal processing.digital signal processing: principles, algorithms and applications was published by pearson education in 2007. This book is the fourth edition and is available in paperback.about the authorsdimitris g. Manolakis has co-written many leading books on digital signal processing including introduction to digital signal processing, statistical & adaptive signal processing, and applied digital signal processing: theory and practice.john g. Proakis is currently the professor emeritus at northeastern university. He specialises in digital signal processing and digital communications.

Book Information

Paperback

Publisher: P; 4TH, INTERNATIONAL ECONOMY EDITION edition (2007)

Language: English

ISBN-10: 8131710009

ISBN-13: 978-8131710005

Product Dimensions: 9.2 x 6.8 x 1.9 inches

Shipping Weight: 3.1 pounds

Average Customer Review: 4.3 out of 5 starsÂ Â See all reviewsÂ (6 customer reviews)

Best Sellers Rank: #687,994 in Books (See Top 100 in Books) #27 inÂ Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > DSPs

Customer Reviews

it is a clone of the book, it isnt the original book.

Great advanced signals book. He glosses over some of the finer points. Highly recommended for a second signals or grad course.

Great. I bought this book for my Digital Signal Processing course. This book explained everything very well.

Multidimensional Digital Signal Processing (Prentice-Hall Signal Processing Series) Digital Signal Processing with Examples in MATLABÂ®, Second Edition (Electrical Engineering & Applied Signal Processing Series) Digital Signal Processing: with Selected Topics: Adaptive Systems, Time-Frequency Analysis, Sparse Signal Processing Bayesian Signal Processing: Classical, Modern and Particle Filtering Methods (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control) Discrete-Time Signal Processing (3rd Edition) (Prentice-Hall Signal Processing Series) Signal Processing Algorithms in Fortran and C (Prentice-Hall Signal Processing Series) LabVIEW Digital Signal Processing: and Digital Communications Biosignal and Medical Image Processing (Signal Processing and Communications) Speech and Audio Signal Processing: Processing and Perception of Speech and Music Handbook of Neural Networks for Speech Processing (Artech House Signal Processing Library) Prentice hall literature (common core edition) (teachers edition grade 6) (Prentice Hall and Texas Instruments Digital Signal Processing Series) The Scientist & Engineer's Guide to Digital Signal Processing Schaums Outline of Digital Signal Processing, 2nd Edition (Schaum's Outlines) Think DSP: Digital Signal Processing in Python VLSI Digital Signal Processing Systems: Design and Implementation Digital Signal Processing and the Microcontroller Digital Signal Processing 4th Edition Understanding Digital Signal Processing (3rd Edition) Applied Digital Signal Processing: Theory and Practice Schaum's Outline of Theory and Problems of Digital Signal Processing