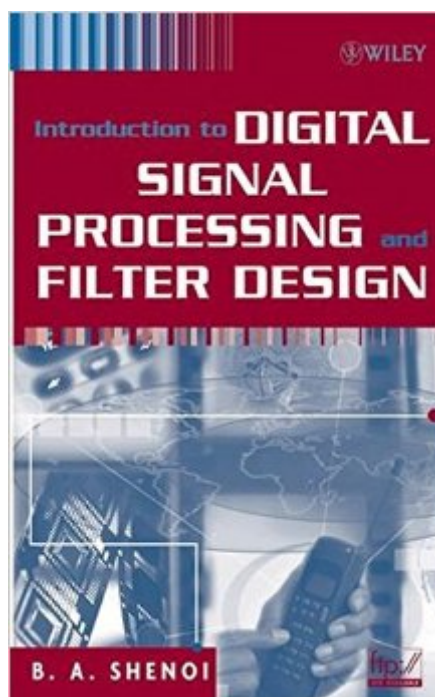


The book was found

# Introduction To Digital Signal Processing And Filter Design



## Synopsis

A practical and accessible guide to understanding digital signal processing. Introduction to Digital Signal Processing and Filter Design was developed and fine-tuned from the author's twenty-five years of experience teaching classes in digital signal processing. Following a step-by-step approach, students and professionals quickly master the fundamental concepts and applications of discrete-time signals and systems as well as the synthesis of these systems to meet specifications in the time and frequency domains. Striking the right balance between mathematical derivations and theory, the book features:

- \* Discrete-time signals and systems
- \* Linear difference equations
- \* Solutions by recursive algorithms
- \* Convolution
- \* Time and frequency domain analysis
- \* Discrete Fourier series
- \* Design of FIR and IIR filters
- \* Practical methods for hardware implementation

A unique feature of this book is a complete chapter on the use of a MATLAB(r) tool, known as the FDA (Filter Design and Analysis) tool, to investigate the effect of finite word length and different formats of quantization, different realization structures, and different methods for filter design. This chapter contains material of practical importance that is not found in many books used in academic courses. It introduces students in digital signal processing to what they need to know to design digital systems using DSP chips currently available from industry. With its unique, classroom-tested approach, Introduction to Digital Signal Processing and Filter Design is the ideal text for students in electrical and electronic engineering, computer science, and applied mathematics, and an accessible introduction or refresher for engineers and scientists in the field.

## Book Information

Hardcover: 440 pages

Publisher: Wiley-Interscience; 1 edition (October 19, 2005)

Language: English

ISBN-10: 0471464821

ISBN-13: 978-0471464822

Product Dimensions: 6.4 x 1 x 9.6 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars [See all reviews](#) (1 customer review)

Best Sellers Rank: #773,178 in Books (See Top 100 in Books) #31 in [Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > DSPs](#) #2265 in [Books > Engineering & Transportation > Engineering > Telecommunications & Sensors](#) #3713 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics](#)

## Customer Reviews

The book is good but the example's are the easy one.

[Download to continue reading...](#)

Introduction to Digital Signal Processing and Filter Design Multidimensional Digital Signal Processing (Prentice-Hall Signal Processing Series) Digital Signal Processing with Examples in MATLAB®<sup>®</sup>, 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) Signal Processing Algorithms in Fortran and C (Prentice-Hall Signal Processing Series) Discrete-Time Signal Processing (3rd Edition) (Prentice-Hall Signal Processing Series) LabVIEW Digital Signal Processing: and Digital Communications VLSI Digital Signal Processing Systems: Design and Implementation Digital Signal Processing - A Modern Introduction Speech and Audio Signal Processing: Processing and Perception of Speech and Music Biosignal and Medical Image Processing (Signal Processing and Communications) Handbook of Neural Networks for Speech Processing (Artech House Signal Processing Library) Applications of Digital Signal Processing to Audio and Acoustics (The Springer International Series in Engineering and Computer Science) Image Sensors and Signal Processing for Digital Still Cameras (Optical Science and Engineering) Prentice hall literature (common core edition) (teachers edition grade 6) (Prentice Hall and Texas Instruments Digital Signal Processing Series) Digital Signal Processing and the Microcontroller Applied Digital Signal Processing: Theory and Practice Schaum's Outline of Theory and Problems of Digital Signal Processing Digital Signal Processing: A Practical Guide for Engineers and Scientists

[Dmca](#)