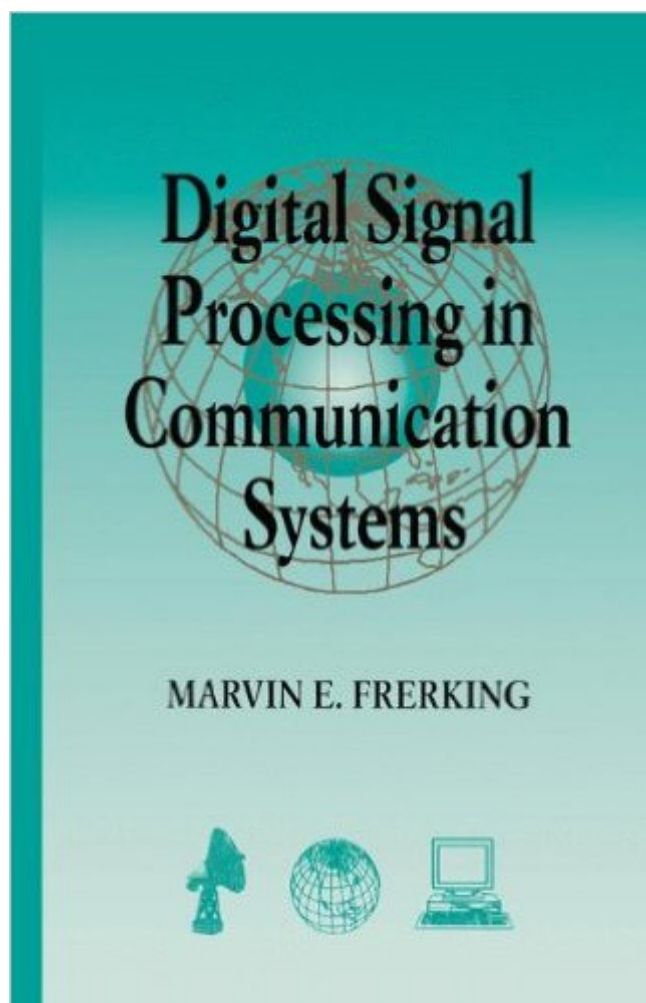# Digital Signal Processing In Communications Systems

Synopsis

An engineer's introduction to concepts, algorithms, and advancements in Digital Signal Processing. This lucidly written resource makes extensive use of real-world examples as it covers all the important design and engineering references.

Book Information

Hardcover: 624 pages

Publisher: Springer; 1994 edition (January 1994)

Language: English

ISBN-10: 0442016166

ISBN-13: 978-0442016166

Product Dimensions: 6.1 x 1.5 x 9.2 inches

Shipping Weight: 2.3 pounds (View shipping rates and policies)

Average Customer Review: 4.3 out of 5 stars See all reviews (3 customer reviews)

Best Sellers Rank: #2,318,278 in Books (See Top 100 in Books)   #79 in Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > DSPs   #1138 in Books > Science & Math > Physics > Acoustics & Sound   #1946 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits

Customer Reviews

I bought this book a while ago but didn't really read it (it cost me a lot to buy this book). I almost sold this book two years ago but nobody wanted to pick it up. How lucky I was!!! Recently I need to implement algorithms for a wireless Modem, and I need many tricks for such like sin(), cos(), arctan(), 1/x.... and I couldn't found other books talking about how to approximate those functions for real world application until I got this book from the basement, and suddenly I found this is the book that can show me those practical skill in the real world problem!!This book talks about many wireless systems and subcircuits, and much more useful than other books is that this book show you how you can make the real circuit (Singal Processing) to approximate many fucntions used in those subcircuits.However, this book has two weakness, first, some of the sentences are not easy to understand and second, it was written in 1994, it doesn't have up-to-date information and there are many advancement in todays digital radio.

I have referenced this book many, many times over the years while developing DSP software. Practical ideas and algorithms. I will have to agree with a previous reviewer, that it is getting a little

old, and does not cover a lot of new techniques, like CDMA.

A practical book written in a good style to be found useful by both beginners and advanced users. The concepts of practical DSP with focus on applications to communications are well explained.Some of the algorithms, like in DSP based Modems, would be found immensely useful to both academic and practicing engineers.

Bayesian Signal Processing: Classical, Modern and Particle Filtering Methods (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control) Digital Signal Processing: with Selected Topics: Adaptive Systems, Time-Frequency Analysis, Sparse Signal Processing Multidimensional Digital Signal Processing (Prentice-Hall Signal Processing Series) Digital Signal Processing with Examples in MATLAB®, Second Edition (Electrical Engineering & Applied Signal Processing Series) LabVIEW Digital Signal Processing: and Digital Communications Digital Signal Processing in Communications Systems Biosignal and Medical Image Processing (Signal Processing and Communications) Discrete-Time Signal Processing (3rd Edition) (Prentice-Hall Signal Processing Series) Signal Processing Algorithms in Fortran and C (Prentice-Hall Signal Processing Series) Digital Signal Processing Technology: Essentials of the Communications Revolution VLSI Digital Signal Processing Systems: Design and Implementation Digital Signal Processing: Signals, Systems, and Filters First Principles of Discrete Systems and Digital Signal Processing (Addison-Wesley Series in Electrical Engineering) Discrete Systems and Digital Signal Processing with MATLAB, Second Edition 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