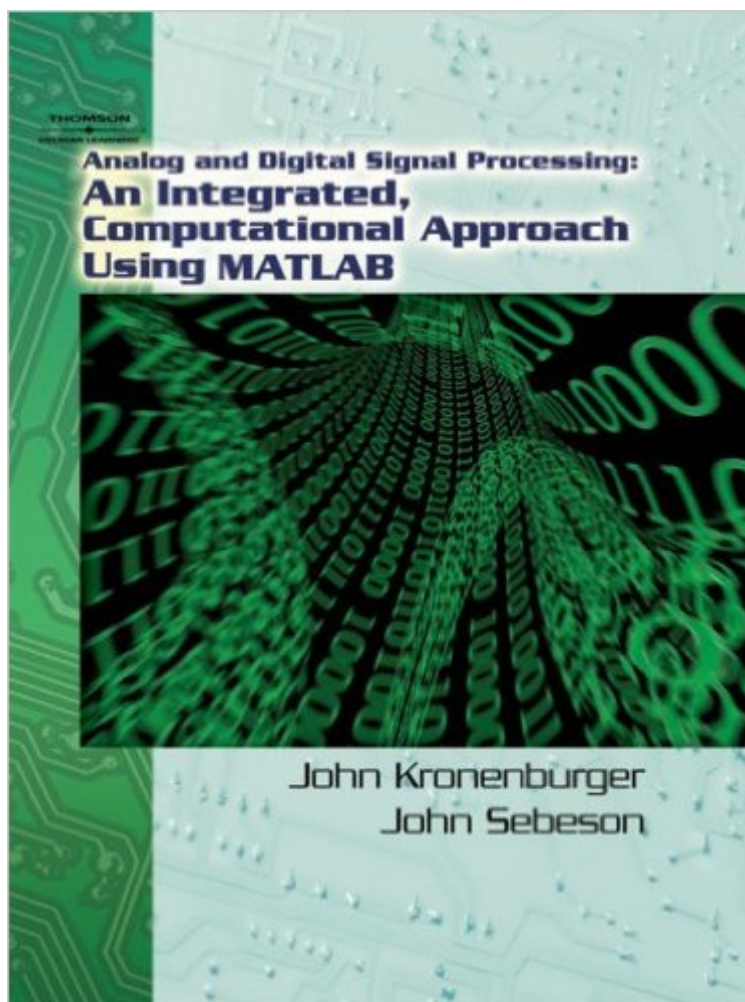


The book was found

Analog & Digital Signal Processing



Synopsis

Analog & Digital Signal Processing: A Computational Approach provides a thorough yet mathematically accessible introduction to signal processing. With the increasing presence of digital signal processing (DSP) in everyday life, in the form of devices such as CD and DVD players, digital cameras, wireless telephones, and voice recognition, it has accordingly become a central element in the design of a variety of systems and applications. This book responds to this trend by presenting readers with a strong foundation of fundamental DSP concepts and designs. Unlike traditional DSP books, a computational approach is used to help readers spend less time deciphering mathematical complexities and more time implementing practical DSP techniques. MATLAB, an industry favorite scientific software package, is used to conduct the computations of the concepts discussed. With coverage of introductory concepts such as sampling, frequency analysis, transfer functions, and filter design, as well as advanced topics like statistical signal processing, adaptive filters, image processing, and wavelet analysis, this is an ideal resource for readers of all levels who are seeking a comprehensive understanding of relevant DSP concepts for today's industry professionals.

Book Information

Hardcover: 800 pages

Publisher: Delmar Cengage Learning; 1 edition (September 21, 2007)

Language: English

ISBN-10: 1418041734

ISBN-13: 978-1418041731

Product Dimensions: 9.6 x 7.5 x 1.2 inches

Shipping Weight: 2.6 pounds

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (1 customer review)

Best Sellers Rank: #2,388,445 in Books (See Top 100 in Books) #81 in [Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > DSPs](#) #597 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Digital Design](#) #2003 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Circuits](#)

Customer Reviews

This book offers an excellent combination of written explanations and Matlab examples. I'm using it in combination with Proakis's DSP book, and I'm finding that if I want to get an idea of what Proakis is talking about, I need to read Kronenburger first. A good example is Kronenburger's explanation of

linear phase. With two simple Matlab examples (signals combined to show phase distortion and signals combined to show linear phase with no distortion), an intuitive understanding of "what is linear phase, anyway?" was provided. Many other topics are similarly treated. The Matlab examples are plentiful and very instructive. I'm very glad that I purchased this book, it has helped me tremendously.

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