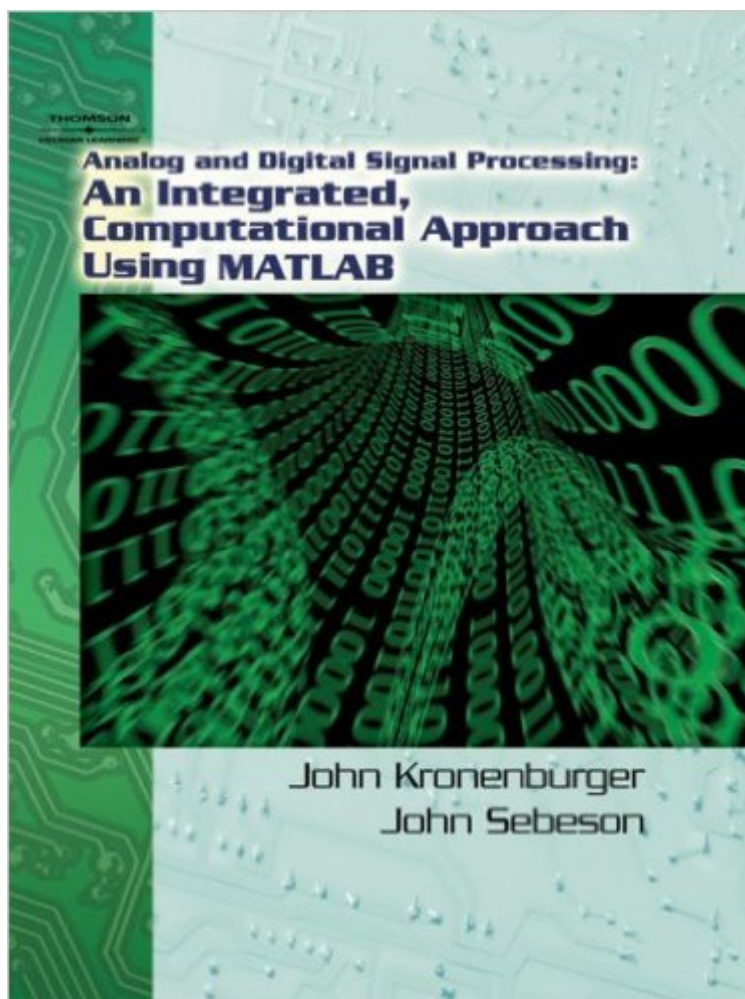


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# Analog & Digital Signal Processing



## 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

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## 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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