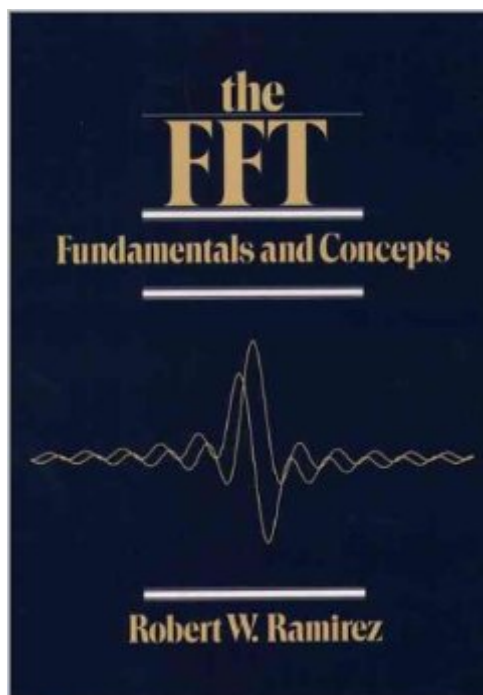# The FFT: Fundamentals And Concepts

Synopsis

Simple and concise discussion of both Fourier Theory and the FFT (fast fourier transform) are provided.

Book Information

Hardcover: 192 pages

Publisher: Prentice Hall PTR; First Edition edition (September 1, 1984)

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Average Customer Review: 4.0 out of 5 stars See all reviews (3 customer reviews)

Best Sellers Rank: #1,450,146 in Books (See Top 100 in Books)   #95 in Books > Science & Math > Mathematics > Infinity   #4280 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors   #4363 in Books > Computers & Technology > Networking & Cloud Computing > Internet, Groupware, & Telecommunications

Customer Reviews

Of the half-shelf of books in my library related to signal processing, this one by Ramirez is part of a highly valued subset. The author achieves an artful balance of the theoretical with the practical. Given that my emphasis is on applying the principles of FFT processing in a manufacturing environment, his approach proved quite helpful.Throughout the book, basic concepts are initially presented within a mathematical context. Subsequently, they are reinforced with examples. Often, hardcopies of traces from a signal processor's monitor are provided--these are effective in driving home key points.After reading this book over two days' time, I was left wishing to see a companion volume that adds more on real-life problem solving, plus material on advanced techniques (e.g., cepstrum). This thirst for more knowledge says a lot for the way in which Ramirez motivates.

This book is a great way to realize that theoretical murmurings can mature into intuitive processes that can be used as guides to self-check new ideas. While FFT theory is necessary, if you like that kind of thing, a good grasp of what may be accomplished is often left out or buried. This book provides a great way to get perspective on rigorous frequency domain textbook theory and make the necessary textbook search for detail much more meaningful. I highly recommend this book for

anyone who has to deal with signal processing.

Too simplistic. Perhaps good for newbies. But anyway thereare better books on FFT, e.g. Brigham. This one is not forprofessionals! You've been warned. For beginners I would recommend books by Zonst. They are much more to the point.And cheaper! Thanks god I didn't buy it myself!

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