



Digital Signal Processing for Audio Applications

By Anton Kamenov



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"Digital Signal Processing for Audio Applications" by Anton Kamenov is a simple structural approach to understanding how digitally recorded sound can be manipulated. It presents and explains, and sometimes derives, the mathematical theory that the DSP user can employ in designing sound manipulating applications.

Although this book contains some mathematics, it is not for mathematicians, but for the engineers and hobbyists. If properly explained, much of the practical DSP applications reduce to simple algebra. This said, the book contains a sufficient amount of theory to provide an explanation of why DSP works the way it does. It is important for practitioners to have a good understanding of how DSP concepts come about. Much of the available DSP information has too much theory and not enough examples. Much of it has too many practical examples and not enough theoretical backing. We hope to have found the proper balance.

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Editorial Review

About the Author

In the summer of 2003 we began designing multi-track recording and mixing software – Orinj at RecordingBlogs.com – a software application that will take digitally recorded audio tracks and will mix them into a complete song with all the needed audio production effects. Manipulating digital sound, as it turned out, was not easy. We had to find the answers of many questions, including what digital audio was, how we could mix audio tracks, how we could track the amplitude of digital sound so that we could apply compression, how we could track frequencies so that we could equalize, what a good model of artificial reverb would be, and many others. Bits of relevant information were available, albeit not always well organized and not always intuitive. "Digital Signal Processing for Audio Applications" provides much of the needed information. It is a simple structured approach to understanding how digitally recorded sound can be manipulated. It presents and explains, and sometimes derives, the mathematical theory that the DSP user can employ in designing sound manipulating applications. We hope you enjoy this book and make use of its definitions, explanations, and numerous examples. The author and the administrators of www.recordingblogs.com

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Viola Boucher:

The book untitled Digital Signal Processing for Audio Applications contain a lot of information on the idea. The writer explains the girl idea with easy method. The language is very simple to implement all the people,

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