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Applied Digital Signal Processing: Theory And Practice

APPLIED DIGITAL SIGNAL PROCESSING

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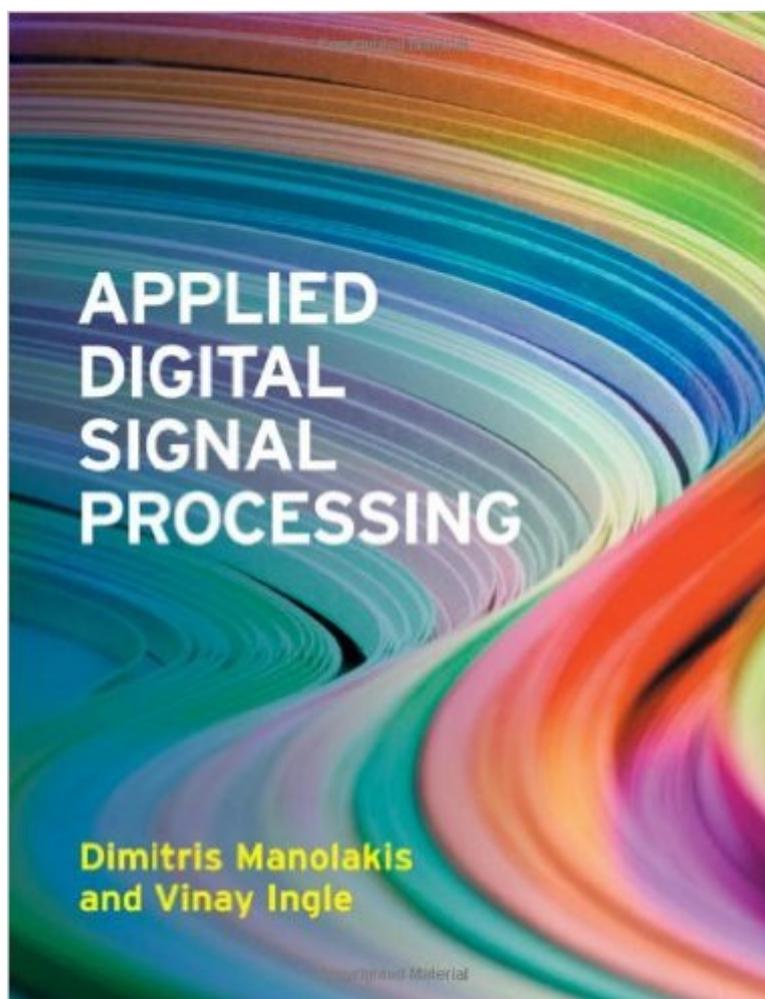
Synopsis

Master the basic concepts and methodologies of digital signal processing with this systematic introduction, without the need for an extensive mathematical background. The authors lead the reader through the fundamental mathematical principles underlying the operation of key signal processing techniques, providing simple arguments and cases rather than detailed general proofs. Coverage of practical implementation, discussion of the limitations of particular methods and plentiful MATLAB illustrations allow readers to better connect theory and practice. A focus on algorithms that are of theoretical importance or useful in real-world applications ensures that students cover material relevant to engineering practice, and equips students and practitioners alike with the basic principles necessary to apply DSP techniques to a variety of applications. Chapters include worked examples, problems and computer experiments, helping students to absorb the material they have just read. Lecture slides for all figures and solutions to the numerous problems are available to instructors.

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Customer Reviews

I got this book for a class. The content was good, and it fit the class well, but the binding ripped apart about halfway through the book. It originally cracked about a few weeks into the course, and a few months later has split entirely. I now have two halves of a book and pages are falling out.

This book will maybe last if I handle it with care. It is a brand new book and I can see that pages in the middle are coming loose from the binding. It would help to have some prior knowledge of DSP - they don't get into all of the theory here. However, this is an EXCELLENT book for learning to do practical things with DSP once you understand the theory. Highly recommended content, but I don't know if you want to take a chance on the binding, which by looking at the other reviews, has been a problem for just about everybody.

I judge a book by my ability to learn the theory using only it as a resource. This one fails. I see attempts at good teaching practices - sorting problems by difficulty, using examples, etc., but the "tutorial" problems, the easiest ones, are a step beyond the examples in the book already. In other words, you can't check your understanding by reading an example and doing a quick problem, because you need to know it that well already and the examples aren't that great. For that matter, you can't run a quick problem and check anyway, since there are no selected answers provided. The equations are all numbered, not just the important ones, so it's hard to sort through and find the critical pieces of theory. If you know the theory and/or have a good teacher, this book can be a good supplement, and has good information on Matlab, but if you are learning for the first time, look somewhere else.Also, the binding is bad and it does fall apart.

Book has a binding problem. I returned it. Pages were coming off within days of buying it.

It`s a great title on DSP area. First DSP book I have used, with good theory, but not too much that would make it hard.The MATLAB applications are great for learning and the exercises are great.

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