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# DSP First (2nd Edition)



## Synopsis

For introductory courses (freshman and sophomore courses) in Digital Signal Processing and Signals and Systems. Text may be used before the student has taken a course in circuits. DSP First and its accompanying digital assets are the result of more than 20 years of work that originated from, and was guided by, the premise that signal processing is the best starting point for the study of electrical and computer engineering. The "DSP First" approach introduces the use of mathematics as the language for thinking about engineering problems, lays the groundwork for subsequent courses, and gives students hands-on experiences with MATLAB. The Second Edition features three new chapters on the Fourier Series, Discrete-Time Fourier Transform, and the Discrete Fourier Transform as well as updated labs, visual demos, an update to the existing chapters, and hundreds of new homework problems and solutions.

## Book Information

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## Customer Reviews

This hands on, multi-media package provides a motivating introduction to fundamental concepts, specifically discrete-time systems, for beginning engineering students. Designed and written by experienced and well-respected authors. This class-tested learning package can also be used as a self-teaching tool for anyone eager to discover more about DSP applications, multi-media signals, and MATLAB. Unique features, such as visual learning demonstrations, MATLAB laboratories and a bank of solved home-work problems are just a few things that make this an essential learning tool for mastering fundamental concepts in today's electrical and computer engineering curriculum.

--This text refers to an out of print or unavailable edition of this title.

This best-selling, hands-on, multimedia package provides an introduction to fundamental concepts, specifically discrete-time systems, for beginning engineering students. Created and written by the same well-respected authors, it has been adopted in over 100 institutions worldwide since publication. This class-tested learning package is also widely used as a self-teaching tool to discover more about DSP applications, multimedia signals, and MATLAB(R). Unique features such as visual learning demonstrations, MATLAB laboratories, and a bank of solved homework problems are just a few of the things that make this an essential learning tool for mastering fundamental concepts in today's electrical and computer engineering curricula.

One of the best books on DSP along with its companion Book "Signal Processing First", Oppenheim's "Signals & Systems" and "Discrete-time Signal Processing" are the "must have" if you want to study in the field of signal processing. Intuitive, easy to read yet it includes all math details. Better than Richard Lyons' "Understanding DSP", if you are mathematically inclined, in my opinion. Highly recommended!

Excellent book: Explains deep concepts, using great practical and down to earth approaches.

This textbook intimidated me when I first opened it, however now that I'm 75% of way through my signal analysis course I can say it actually is good book....Someone with strong mathematical skills and a mind for programming could easily teach themselves DSP from this book - I am happy that I have a good professor to help the learning process....But overall- good textbook

I'd have preferred more examples in the text.

Good

good

I mean its a book....

This book was required for a class, but didn't find it overly useful. Just a bit dated and there are

much better texts on digital signal processing. Fine for a non-engineer or undergraduate student.

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