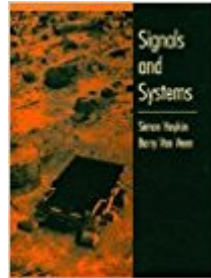




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Signals And Systems



Synopsis

Intended for use in an undergraduate course in electrical engineering, this book provides a modern treatment of signals and systems. It will prepare students for senior-level courses in communication systems, control systems, and digital signal processing (as encountered in digital audio), radar, radio, astronomy, sonar, remote sensing, seismology, and biomedical engineering. Examples and drill problems and solutions are provided throughout the book.

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Intended for use in an undergraduate course in electrical engineering, this book provides a modern treatment of signals and systems. It will prepare students for senior-level courses in communication systems, control systems, and digital signal processing (as encountered in digital audio), radar, radio, astronomy, sonar, remote sensing, seismology, and biomedical engineering. Examples and drill problems and solutions are provided throughout the book.

Reaching the conceptual peaks of signals and systems can be a challenge. But well-known authors Simon Haykin and Barry Van Veen help you clearly see connections among concepts and recognize the relevance of signals and systems to the broader field of electrical engineering.

Features * New problems: The new edition includes opportunities for demonstration and practice throughout. * New themed examples: Six new themed examples demonstrate the range of problems to which signal and system concepts can be applied, including RC circuits, MEMS accelerometer,

radar range measurement, moving average system, multipath communication channel, and first order recursive discrete time computation. The authors revisit these themed examples using different mathematical tools to show how each tool give unique insight into the problem at hand in the context of a real world problem. * New coverage throughout: Contains new sections on MEMS and derivatives of the unit-impulse function, the Costas receiver for demodulation of double sideband-suppressed carrier-modulated signals, and the fundamental notion of feedback and 'why feedback', as well as more detailed treatment of wavelets and the stability of nonlinear feedback systems. A new section on noise has also been added to Chapter 1. Chapter 4 now focuses exclusively on building bridges between the four basic Fourier representation for applications in which there is a missing of signal classes. * Many opportunities for practice: All examples are based on real-world problems and emphasize the correct mathematical steps needed for applying the theory. Problems vary from drill-based to complex, so you'll have plenty of room to practice. * Integrated, flexible coverage of MATLAB: MATLAB techniques and uses, as well as MATLAB practice problems, and provided at the end of each chapter.

good job

Crapy book

good

This book is a must for second or third year engineering students (electrical, biomedical, etc...) the concepts can be difficult to understand but the book did a good job simplifying it.

I highly recommend this book to graduate level learners who are eager to learn thoroughly about signals and systems. Student like me whose research is related to much knowledge on this field but no any backgrounds of this field, should really use this book as their 'Bible'. It not only give detailed explanations on every definition but also provides bunch of examples on EE and ME majors. Besides, I really appreciate the Matlab tutorial in the end of each chapter! It is so helpful for whom really wants to learn!

I had to use this book for my signals and systems class. It would compare it to trying to learn another language using only a translation dictionary. While you will be presented all the information,

unless you know sentence structure, tenses, and accents you still don't know enough to complete understand. The book does cover all necessary topics to have a remarkable understanding of signals and systems topics it's compiled as if it was to be read by a robot. I found myself rereading a lot, googling lots of math, and struggling to pass tests. The book needs more explanations and key concepts in bold. If you have to buy this book for class I recommend you skip to the end of each chapter read the summary and watch YouTube vids on the material from each chapter, you'll save time and headache.

I'm glad I didn't buy this book. I borrowed it. I found it very hard to understand. The examples are either too easy, or too difficult -- there isn't a sweet middle-ground. The "drill problems" are pretty much the same story. I failed to gather the intuition behind the subject matter. Math can be great, but not what's presented in this book. I've ordered Oppenheim's book based on recommendations from friends. Once I read that, I'll write a review about that book. EE can be beautiful. I couldn't find that beauty through this book -- and that's a shame.

I found this book useful for a Signals and Systems class I took that required this book. I didn't find it hard to follow or anything, though I'm math-oriented by nature and used it with Schaum's outline (by Hsu) as well. If anyone's wondering whether this book is the same as the "2005 Interactive Solutions Edition", the answer, as far as I can tell, is yes. I compared mine with a 2005 version and the only difference I noticed is that the 2005 edition has indications where an "Interactive Solution" is available.

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