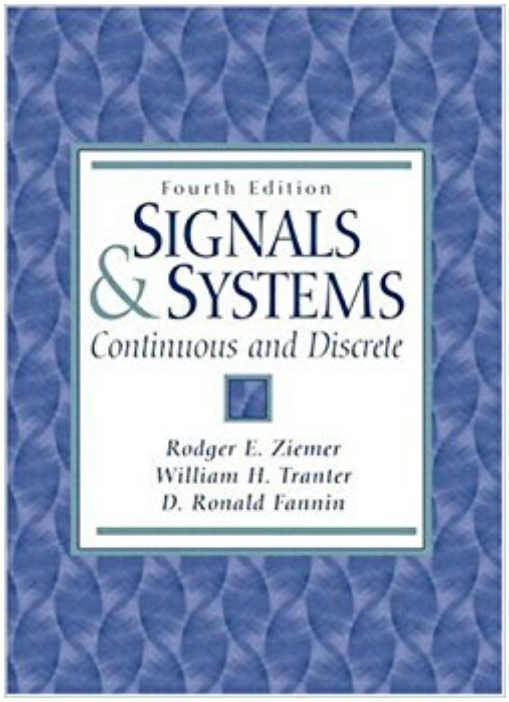
Signals And Systems: Continuous And Discrete (4th Edition)



Synopsis

A market leader in previous editions, this book continues to offer a complete survey of continuous and discrete linear systems. It utilizes a systems approach to solving practical engineering problems, rather than using the framework of traditional circuit theory. Numerous examples from circuit theory appear throughout, however, to illustrate the various systems techniques introduced. The Fourth Edition has been thoroughly updated to effectively integrate the use of computers and to accurately reflect the latest theoretical advances.

Book Information

Hardcover: 622 pages

Publisher: Pearson; 4 edition (February 20, 1998)

Language: English

ISBN-10: 013496456X

ISBN-13: 978-0134964560

Product Dimensions: 7 x 1.6 x 9.3 inches

Shipping Weight: 2.5 pounds (View shipping rates and policies)

Average Customer Review: 3.4 out of 5 stars 19 customer reviews

Best Sellers Rank: #50,933 in Books (See Top 100 in Books) #5 inÂ Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Signal Processing #9 inÂ Books > Computers & Technology > Computer Science > AI & Machine Learning > Computer Vision & Pattern Recognition #13 inÂ Books > Science & Math > Physics > System Theory

Customer Reviews

A market leader in previous editions, this book continues to offer a complete survey of continuous and discrete linear systems. It utilizes a systems approach to solving practical engineering problems, rather than using the framework of traditional circuit theory. Numerous examples from circuit theory appear throughout, however, to illustrate the various systems techniques introduced. --This text refers to an out of print or unavailable edition of this title.

A market leader in previous editions, this book continues to offer a complete survey of continuous and discrete linear systems. It utilizes a systems approach to solving practical engineering problems, rather than using the framework of traditional circuit theory. Numerous examples from circuit theory appear throughout, however, to illustrate the various systems techniques introduced. The Fourth Edition has been thoroughly updated to effectively integrate the use of computers and to

accurately reflect the latest theoretical advances.

Signals and systems is not an easy topic. The authors of this book do not make the life of the reader easier either.Very difficult reading and concepts may be hard to understand.

Great book, it is more pedagogical than some of the more prolific texts on the subject.

The best seller one could by from. Fast delivery. Really new item. Great great great

This book states on the cover not for sale or use outside of some specific south Asian countries but it shipped to me in the US just fine. Book in good condition and seems to be the same text as the much more expensive version.

This is one of those books that a lot of people hate. Most people that hate it, from what I've seen, also hated the course or the topic.If you really want to understand signals and systems, and by this I don't mean using cookie-cutter recipes, buy this book.This book skips nothing. Everything is proven using math. The proofs and tables are some of the few tidbits from my undergraduate career that I still find myself looking back on. This book never leaves my desk.This book doesn't contain flowery, colorful diagrams. There aren't any clip-art chapter title pages. There aren't TI-89 programs or java examples, and there isn't a CD included. (Mine is the 3rd edition, so maybe this has changed). So if you wanted a picturebook, look elsewhere.In my opinion, this is the best introductory text for a Signals and Systems course, and a very useful book for any engineer looking to learn DSP or digital communications. Even all-analog guys will get a lot of milage out of the concepts.If you find this text frustrating, clear your mind, and get a pad of paper, a pencil, and this textbook, and just start working the examples and proofs, beginning with where you feel lost. If you're willing to put in the time (it may be several hours), it'll be worth it in the end. This book imparts a lot of intuition about signals and is well worth the sweat.

I took two undergraduate courses based on the first edition of this book during my Junior year in the BSEE curriculum. It is without a doubt a mathematically oriented book as any signals & systems textbook should be. The tie into real world problems though present were in fact lacking in the first edition in my opinion and left to follow-on courses in communications or image processing.That said this book does what it is supposed to do: Introduce the student to the mathematical modeling and

characterization of signals and systems. It's thorough treatment of the Fourier, LaPlace transformation, including the derivation of many transform pairs, forces the student to understand the mathematical basis of the unique time-frequency domain properties of numerous system input and response functions. The second semester continues that trend with the z-transform, discrete Fourier transform and the FFT.During graduate work several years later, I called upon the knowledge acquired during my undergraduate work, and specifically this book, to literally cruise ahead of my classmates on numerous tests and courses. On several occasions, I literally looked around the room during tests to witness fellow graduate classmates stumped. Ziemer, Tranter & Fannin, did a good job creating this book and with Bobby Betton's instruction (RIP), they helped many students understand and excel in mathematically challenging courses. 20+ years into my career, I find myself referring to this book again for its relevance to my work.

If I was a tree, I would be upset that some of my fellow trees made the ultimate sacrifice to become the paper that is used in this piece of trash someone pawned off as a textbook for a signals and systems course. I really expected a lot more from authors coming from the University of Colorado and VA Tech. This book completely tarnishes the names of those fine schools. The book is poorly organized, poorly written and the proofs for most of the equations are given as problems at the end of the chapter. Most of the examples that are given are special cases and can not be used for things that are more common in real life. Footnotes often take up more than half a page making the book extremely hard to read and comprehend. The vocabulary is such that the authors explain the words used in the text over and over. This book is one notch below useless. If I could I would rate it minus two stars. In an effort to save my grade for the course using this book I went ahead and purchased two other books in the hope to supplement this one. At the end of this semester I am burning this book to prevent it from spreading the pain and frustration it has caused me onto other people. If you have a choice, I highly recommend that you do not buy this book.

I had the extreme displeasure of having to use this book in an undergraduate course called Linear Signals and Systems. It is poorly written and laid out first off. The ideas and concepts are half formed and the proofs are all well over any student's head who has only had one class in differential equations (rendering them pointless, for it is intend for just such people). I would actually sit down sometimes, tell myself that the book couldn't be as bad as I had it pegged, and try to read over the material that had been covered in class to learn it. I always ended up flipping pages, frustrated, sure that I had missed a page or paragraph somewhere, but I never had. It's that bad. Don't buy this. I

wound up selling it before the class was over and relying on my notes and my old Ciruits text book, which was quite good (it was also written incidentally by J. David Irwin, the head of our department).

Signals and Systems: Continuous and Discrete (4th Edition) Signals and Systems using MATLAB, Second Edition (Signals and Systems Using MATLAB w/ Online Testing) Signals and Systems: Analysis of Signals Through Linear Systems Continuous Color: A Month-by-Month Guide to Shrubs and Small Trees for the Continuous Bloom Garden Problems from the Discrete to the Continuous: Probability, Number Theory, Graph Theory, and Combinatorics (Universitext) Vibration of Continuous Systems Schaumâ ™s Outline of Signals and Systems, 3rd Edition (Schaum's Outlines) Signals and Systems for Bioengineers, Second Edition: A MATLAB-Based Introduction (Biomedical Engineering) Signals and Systems (2nd Edition) Linear Systems and Signals, 2nd Edition Signals, Systems, & Transforms (5th Edition) Medical Imaging Signals and Systems Signals, Systems, and Transforms Signals and Linear Systems Analog Signals and Systems Signals and Systems (Prentice-Hall signal processing series) Signals and Systems Signals and Systems: Analysis Using Transform Methods & MATLAB Concepts in Systems and Signals Discrete and Combinatorial Mathematics: An Applied Introduction (4th Edition)