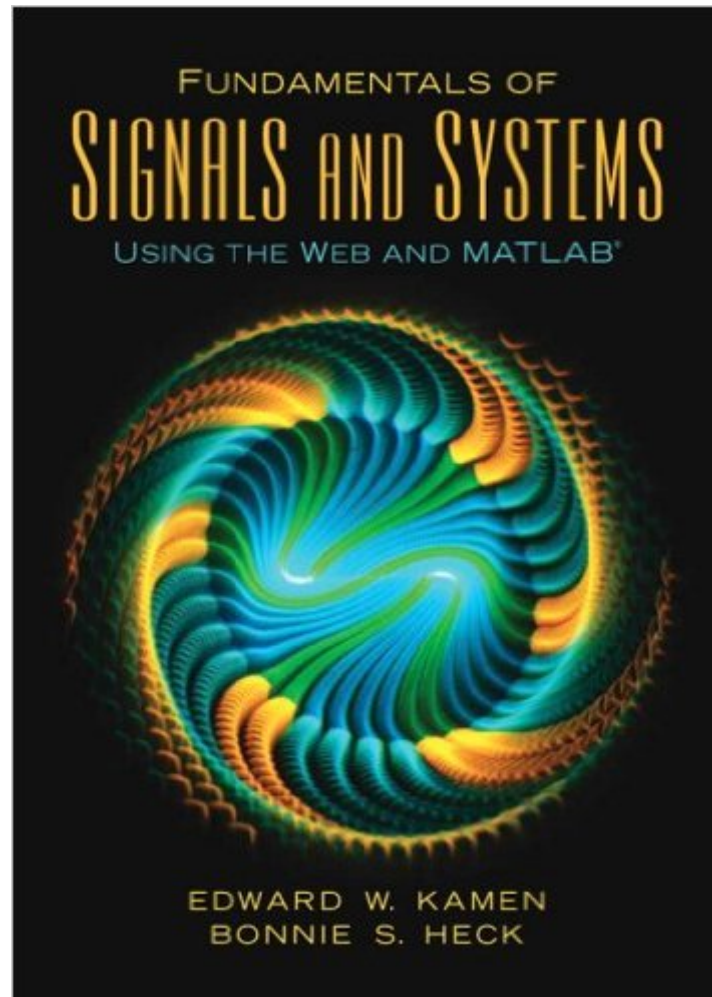# Fundamentals Of Signals And Systems Using The Web And MATLAB (3rd Edition)

Synopsis

With the presentation at an introductory level, the third edition of the book (2007 copyright) contains a comprehensive treatment of continuous-time and discrete-time signals and systems, with demos on the textbook website (users.ece.gatech.edu/~bonnie/book3), data downloaded from the Web, and illustrations of numerous MATLAB commands for the solution of a wide range of problems arising in engineering and in other fields such as financial data analysis. The book contains a large collection of examples and problems, and practical applications that use actual data dowloaded from the Web. It is shown how data can be downloaded and then imported into MATLAB for analysis by techniques covered in the text. Applications include data analysis in the presense of noise, with the focus onÂ filteringÂ noisy signals and the use of the discrete Fourier transform (DFT) to extract the dominant cyclic components of a signal (time series) from noisy measurements of the signal.

Book Information

Hardcover: 672 pages

Publisher: Pearson; 3 edition (July 21, 2006)

Language: English

ISBN-10: 0131687379

ISBN-13: 978-0131687370

Product Dimensions: 6.8 x 1.1 x 9.3 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 3.1 out of 5 starsÂ Â See all reviewsÂ (23 customer reviews)

Best Sellers Rank: #579,153 in Books (See Top 100 in Books)   #86 inÂ Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Signal Processing   #371 inÂ Books > Computers & Technology > Software > Mathematical & Statistical   #1171 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics

Customer Reviews

The information in this book is difficult enough to learn, and the way it is presented here compounds the problem.The Information and examples are not explained thoroughly or completely (to compressed) can be very over whelming.There are many practice problems at the end of each chapter (great) there is one problem ...there are no ANSWERS???. I was not able to find a solutions manual. I even emailed the author (I got no reply). Very difficult to know if your solving the Practice Problems correctly if you don't have any solved practice prolems let alone any answers. I did

manage to pick up some of what the author was trying to say, but i had to read each chapter numerous times. The website referred to in the book has a few solved example problems for each chapter, but many are hand written and could not be interpreted. In all honesty I was using this book in conjunction with a self study coarse and did not have the benefit of an instructor.I would not reccomend using this book alone,when trying to grasp this subject.

The fact that this book is written in plain language is great, it makes a lot of concepts a lot easier to digest. However, the material here is extremely patchy. As a student learning this for the first time, I've found that this textbook isn't exactly the most effective due to the holes between content areas. The author seems to go into detail about things that seem unimportant, while he/she skims over the real meat of the subject. And what's worse is the fact that there are no worked out examples. If there were more worked examples, concepts might click amongst the patchy conceptual explanations. There is MATLAB scattered throughout the text, which I've found useful at times, but it too is not explained well-enough. All in all, this is not a text that I recommend to those in their introductory signal processing courses, rather, I recommend this text to those who have already taken introductory signal processing classes and are in need of a review text. As a review for those already in the know, this text seems great.

This book would be excellent for someone who is already familiar with signals but is not good for the student who is learning the topic. Very few examples and no student solutions manual makes it a hard sell. For those after theory only.

I used this at VCU because my professor had attended GA Tech which is written by the professors there. It has no solutions to any "practice" problems. It doesnt go into enough detail and assumes that you already know this stuff. What's the point then? I couldn't recommend this to anyone. Beware for those who are purchasing it.

Awful for a control system course (which is what it is intended for and used for at Georgia Tech). The only good control/systems sections were on root locus and Bode design. The first half of the book is on refresher material from DSP (Laplace transforms, etc.). Try Gene Franklin's Feedback Design book for a much more sophisticated approach (with examples!) on actual control systems.

As a first time learner of Signals and Systems, this is a very poor book. Examples can be confusing,

and the web portion of the book is dated. Hopefully you don't get this book asigned...

As has been said by other reviewers, the book is not very easy to follow at all for students. This was the book assigned for class, but I've had to get my hands on another book to actually understand the material, and the only thing I use this book for now is to do the assigned problems.

The book is short and mostly clear. The biggest problem with it is no odd or even answers in the back. Without this it makes it nearly impossible to learn since you do not know whether your answers are right or not. Also, it does not include an index of fourier to real function graphs with their fourier phases. These graphs make learning transforms infinitely easier. It also has few examples that help clarify the material. On the plus side, if this is a review or second time looking at this material, it is a great reference/review book.

MATLAB - Programming with MATLAB for Beginners - A Practical Introduction to Programming and Problem Solving (Matlab for Engineers, MATLAB for Scientists, Matlab Programming for Dummies) Fundamentals of Signals and Systems Using the Web and MATLAB (3rd Edition) Signals and Systems using MATLAB, Second Edition Computer Explorations in Signals and Systems Using MATLAB (2nd Edition) Fundamentals of Signals and Systems Fundamentals of Digital Signal Processing Using MATLAB Digital Communication Systems Using MATLAB and Simulink, Second Edition Modern Control Systems Analysis and Design Using MATLAB and Simulink Contemporary Linear Systems Using MATLAB (Bookware Companion) Python: Learn Web Scraping with Python In A DAY! - The Ultimate Crash Course to Learning the Basics of Web Scraping with Python In No Time (Web Scraping ... Python Books, Python for Beginners) Your Fertility Signals: Using Them to Achieve or Avoid Pregnancy Naturally Linear Systems and Signals, 2nd Edition Signals, Systems, and Transforms (4th Edition) Signals and Systems, 2005 Interactive Solutions Edition Medical Imaging Signals and Systems (2nd Edition) Programming the Web with ColdFusion MX 6.1 Using XHTML (Web Developer Series) Building Automation: Communication systems with EIB/KNX, LON and BACnet (Signals and Communication Technology) Digital Signal Processing: Signals, Systems, and Filters Signals, Systems, and Transforms Signals and Systems (Orange Grove Texts Plus)