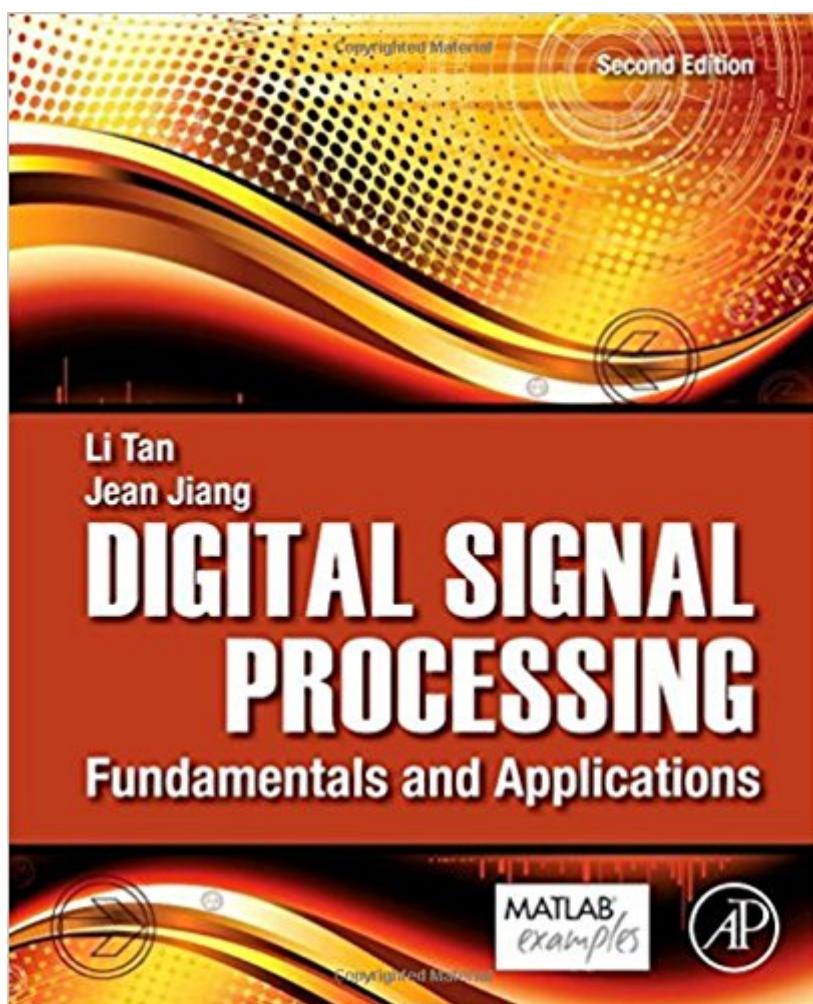The book was found

Digital Signal Processing, Second Edition: Fundamentals And Applications

Synopsis

Digital Signal Processing, Second Edition enables electrical engineers and technicians in the fields of biomedical, computer, and electronics engineering to master the essential fundamentals of DSP principles and practice. Many instructive worked examples are used to illustrate the material, and the use of mathematics is minimized for easier grasp of concepts. As such, this title is also useful to undergraduates in electrical engineering, and as a reference for science students and practicing engineers. The book goes beyond DSP theory, to show implementation of algorithms in hardware and software. Additional topics covered include adaptive filtering with noise reduction and echo cancellations, speech compression, signal sampling, digital filter realizations, filter design, multimedia applications, over-sampling, etc. More advanced topics are also covered, such as adaptive filters, speech compression such as PCM, u-law, ADPCM, and multi-rate DSP and over-sampling ADC. New to this edition: MATLAB projects dealing with practical applications added throughout the bookNew chapter (chapter 13) covering sub-band coding and wavelet transforms, methods that have become popular in the DSP fieldNew applications included in many chapters, including applications of DFT to seismic signals, electrocardiography data, and vibration signalsAll real-time C programs revised for the TMS320C6713 DSKCovers DSP principles with emphasis on communications and control applicationsChapter objectives, worked examples, and end-of-chapter exercises aid the reader in grasping key concepts and solving related problemsWebsite with MATLAB programs for simulation and C programs for real-time DSP

Book Information

Hardcover: 896 pages

Publisher: Academic Press; 2 edition (February 22, 2013)

Language: English

ISBN-10: 0124158935

ISBN-13: 978-0124158931

Product Dimensions: 7.5 x 2.3 x 9.5 inches

Shipping Weight: 4.3 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars   6 customer reviews

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Customer Reviews

Li Tan is professor of Electrical Engineering at Purdue University Northwest. He received his Ph.D. degree in Electrical Engineering from the University of New Mexico, Albuquerque, in 1992. Dr. Tan has taught digital signal processing, control systems and communication systems for over 20 years. He has published more than 80 refereed technical articles in journals, conference papers and book chapters in the area of digital signal processing. He has co-authored 4 textbooks, and holds a US patent. Dr. Tan is a senior member of the IEEE.Jean Jiang is an associate professor in the Department of Engineering Technology at Purdue University Northwest. She received her Ph.D. degree in Electrical Engineering from the University of New Mexico, Albuquerque, in 1992. Dr. Jiang has taught digital signal processing, control systems and communication systems for over 20 years. She has published refereed technical articles in journals, conference papers and book chapters in the area of digital signal processing, and co-authored 4 textbooks.

Thanks

Very good for communication engineers.

I bought this book brand new due to the fact that I was taking the author's DSP class. The book is VERY informative and very easy to read and provides very good examples. The only issue I had with this book is that the binding started to break down after a couple weeks of use. Other than the book binding, I cannot recommend this book highly enough!

This book is a comprehensive one full of usefull and practical technical details and applications. Nice and good work and Thanks!

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