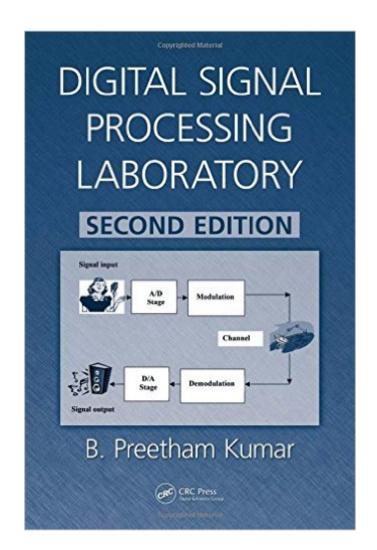
The book was found

# Digital Signal Processing Laboratory, Second Edition





## Synopsis

Considering the rapid evolution of digital signal processing (DSP), those studying this field require an easily understandable text that complements practical software and hardware applications with sufficient coverage of theory. Designed to keep pace with advancements in the field and elucidate lab work, Digital Signal Processing Laboratory, Second Edition was developed using material and student input from courses taught by the author. Contains a new section on digital filter structure Honed over the past several years, the information presented here reflects the experience and insight the author gained on how to convey the subject of DSP to senior undergraduate and graduate students coming from varied subject backgrounds. Using feedback from those students and faculty involved in these courses, this book integrates simultaneous training in both theory and practical software/hardware aspects of DSP. The practical component of the DSP course curriculum has proven to greatly enhance understanding of the basic theory and principles. To this end, chapters in the text contain sections on: Theorya •Explaining the underlying mathematics and principlesProblem solvinga •Offering an ample amount of workable problems for the readerComputer laboratorya •Featuring programming examples and exercises in MATLAB® and Simulink®Hardware laboratoryâ •Containing exercises that employ test and measurement equipment, as well as the Texas Instruments TMS320C6711DSP Starter Kit The text covers the progression of the Discrete and Fast Fourier transforms (DFT and FFT). It also addresses Linear Time-Invariant (LTI) discrete-time signals and systems, as well as the mathematical tools used to describe them. The author includes appendices that give detailed descriptions of hardware along with instructions on how to use the equipment featured in the book.

### **Book Information**

Hardcover: 298 pages Publisher: CRC Press; 2 edition (May 6, 2010) Language: English ISBN-10: 1439817375 ISBN-13: 978-1439817377 Product Dimensions: 6.1 x 0.7 x 9.2 inches Shipping Weight: 1.2 pounds (View shipping rates and policies) Average Customer Review: 5.0 out of 5 stars Â See all reviews (3 customer reviews) Best Sellers Rank: #1,455,512 in Books (See Top 100 in Books) #55 in Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design > DSPs #4302 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors #4378 in Books > Computers & Technology > Networking & Cloud Computing > Internet, Groupware, & Telecommunications

#### **Customer Reviews**

I have got to say that this book is pretty damn interesting and very useful if you are enrolled at Sac State and are taking CPE 144. Otherwise, you might as well not bother to look at it.

This book is equally useful to the students as well as the professionals working in the area of digital signal processing (DSP) anywhere in the world. It contains a wealth of practical information that makes the understanding of the complex DSP concepts a breeze.

I love the way the information is presented, in a smart and logical manner.

#### Download to continue reading...

Digital Signal Processing with Examples in MATLAB®, Second Edition (Electrical Engineering & Applied Signal Processing Series) Multidimensional Digital Signal Processing (Prentice-Hall Signal Processing Series) Digital Signal Processing: with Selected Topics: Adaptive Systems, Time-Frequency Analysis, Sparse Signal Processing Digital Signal Processing Laboratory, Second Edition Discrete-Time Signal Processing (3rd Edition) (Prentice-Hall Signal Processing Series) Bayesian Signal Processing: Classical, Modern and Particle Filtering Methods (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control) Signal Processing Algorithms in Fortran and C (Prentice-Hall Signal Processing Series) LabVIEW Digital Signal Processing: and Digital Communications Real-Time Digital Signal Processing from MATLAB® to C with the TMS320C6x DSPs, Second Edition Analog and Digital Signal Processing:2nd (Second) edition Discrete Systems and Digital Signal Processing with MATLAB, Second Edition Digital Signal Processing, Second Edition: Fundamentals and Applications Biosignal and Medical Image Processing (Signal Processing and Communications) Speech and Audio Signal Processing: Processing and Perception of Speech and Music Handbook of Neural Networks for Speech Processing (Artech House Signal Processing Library) Prentice hall literature (common core edition) (teachers edition grade 6) (Prentice Hall and Texas Instruments Digital Signal Processing Series) Schaums Outline of Digital Signal Processing, 2nd Edition (Schaum's Outlines) Digital Signal Processing 4th Edition Understanding Digital Signal Processing (3rd Edition) Schaum's Outline of Digital Signal Processing 1st (first) edition Text Only

<u>Dmca</u>