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*Digital Signal  
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In Signals and Systems, Sanjit Mitra  
addresses the question: What are the

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core concepts that undergraduate students need to learn in order to successfully continue their studies in the field? Straightforward, easy-to-understand, and engaging, Signals and Systems enables students to focus on essential material by avoiding artificial signals and systems that they

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will never encounter in their professional careers.

"For those involved in the design and implementation of signal processing algorithms, this book strikes a balance between highly theoretical expositions and the more practical treatments, covering only those approaches

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necessary for obtaining an optimal estimator and analyzing its performance. Author Steven M. Kay discusses classical estimation followed by Bayesian estimation, and illustrates the theory with numerous pedagogical and real-world examples."--Cover, volume 1.

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The Nonuniform Discrete Fourier Transform and its Applications in Signal Processing is organized into seven chapters. Chapter 1 introduces the problem of computing frequency samples of the z-transform of a finite-length sequence, and reviews the existing techniques. Chapter 2

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develops the basics of the NDFT including its definition, properties and computational aspects. The NDFT is also extended to two dimensions. The ideas introduced here are utilized to develop applications of the NDFT in the following four chapters. Chapter 3 proposes a nonuniform frequency

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sampling technique for designing 1-D FIR digital filters. Design examples are presented for various types of filters. Chapter 4 utilizes the idea of the 2-D NDFT to design nonseparable 2-D FIR filters of various types. The resulting filters are compared with those designed by other existing methods

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and the performances of some of these filters are investigated by applying them to the decimation of digital images. Chapter 5 develops a design technique for synthesizing antenna patterns with nulls placed at desired angles to cancel interfering signals coming from these directions.



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Chapter 6 addresses the application of the NDFT in decoding dual-tone multi-frequency (DTMF) signals and presents an efficient decoding algorithm based on the subband NDFT (SB-NDFT), which achieves a fast, approximate computation of the NDFT. Concluding remarks are included in

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Chapter 7. The Nonuniform Discrete Fourier Transform and its Applications in Signal Processing serves as an excellent reference for researchers.

Signal Processing First

Two-dimensional Digital Signal Processing

Discrete-Time Signal Processing

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Schaum's Outline of Digital Signal  
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common signal processing operations. The topics describe clever DSP tricks of the trade not covered in conventional DSP textbooks. This material is practical, real-world, DSP tips and tricks as opposed to the

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traditional highly-specialized, math-intensive, research subjects directed at industry researchers and university professors. This book goes well beyond the standard DSP fundamentals textbook and presents new,

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but tried-and-true, clever implementations of digital filter design, spectrum analysis, signal generation, high-speed function approximation, and various other DSP functions.

This book serves as a

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textbook for senior undergraduate students who are learning the subject of general relativity and gravitational waves for the first time. Both authors have been teaching the course in various forms for

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a few decades and have designed the book as a one stop book at basic level including derivations and exercises. A spectacular prediction of general relativity is gravitational waves. Gravitational waves



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were first detected by the LIGO detectors in 2015, hundred years after their prediction. Both authors are part of the LIGO Science Collaboration and were authors on the discovery paper. Therefore, a strong

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motivation for this book is to provide the essential concepts of general relativity theory and gravitational waves with their modern applications to students and to researchers who are new to the multi-

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disciplinary field of  
gravitational wave  
astronomy. One of the  
advanced topics covered in  
this book is the  
fundamentals of  
gravitational wave data  
analysis, filling a gap in

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textbooks on general relativity. The topic blends smoothly with other chapters in the book not only because of the common area of research, but it uses similar differential geometric and algebraic

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tools that are used in  
general relativity.

This textbook and reference  
for graduate level courses  
in digital signal processing  
can be used in a variety of  
courses. It includes details  
about deterministic signal

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processing, algorithms for  
convolution and DFT,  
multirate DSP, digital  
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***Digital Signal Processing: A***

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*Computer-Based Approach is intended for a two-semester course on digital signal processing for seniors or first-year graduate students. The prerequisite for this book is a junior-level course in linear continuous-time and discrete-*



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*time systems, which is usually required in most universities. A key feature of this book is the extensive use of MATLAB-based examples that illustrate the program's powerful capability to solve signal processing problems. Practical*

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*examples and applications bring the theory to life. This popular book introduces the tools used in the analysis and design of discrete-time systems for signal processing.*

*A best-seller in its print version, this comprehensive CD-ROM reference*

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*contains unique, fully searchable coverage of all major topics in digital signal processing (DSP), establishing an invaluable, time-saving resource for the engineering community. Its unique and broad scope includes contributions from*

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*all DSP specialties, including:  
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to dive into signal processing. While  
most resources start with theory to*

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*teach this complex subject, this practical book introduces techniques by showing you how they're applied in the real world. In the first chapter alone, you'll be able to decompose a sound into its harmonics, modify the harmonics,*

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*and generate new sounds. Author Allen Downey explains techniques such as spectral decomposition, filtering, convolution, and the Fast Fourier Transform. This book also provides exercises and code examples to help you understand the*

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*material. You'll explore: Periodic  
signals and their spectrums  
Harmonic structure of simple  
waveforms Chirps and other sounds  
whose spectrum changes over time  
Noise signals and natural sources  
of noise The autocorrelation*



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*function for estimating pitch*  
*The discrete cosine transform (DCT) for*  
*compression*  
*The Fast Fourier*  
*Transform for spectral analysis*  
*Relating operations in time to*  
*filters in the frequency domain*  
*Linear time-invariant (LTI) system*

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*theory Amplitude modulation (AM)  
used in radio Other books in this  
series include Think Stats and  
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been widely recognized that the improvement of the picture quality in current and advanced television systems requires will chosen signal processing algorithms, which are multidimensional in nature, within the demanding constraints of a real-time implementation. This volume serves as an excellent reference, providing

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insights into some of the most important issues of multidimensional processing of video signals, by presenting some of the latest developments in this fast moving field. This book provides design methods for Digital Signal Processors and Application Specific Instruction set Processors, based on the author's extensive, industrial design

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experience. Top-down and bottom-up design methodologies are presented, providing valuable guidance for both students and practicing design engineers. Coverage includes design of internal-external data types, application specific instruction sets, micro architectures, including designs for datapath and control

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path, as well as memory sub systems.

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Electronics and Electrical Engineering subject area. Once approved (usually within one business day) you will be able to access all of the instructor-only materials through the ";Instructor Manual"; link on this book's full web page. \* Instruction set design for application specific processors based on fast application profiling \* Micro architecture

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design details based on real examples \*  
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Design for efficient memory sub systems  
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Real example designs based on extensive,  
industrial experiences.

MATLAB Applications

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A Computer Based Approach

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extensive teaching and  
research experience,

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A Computer Based Approach,  
fourth edition, is written  
with the reader in mind. A  
key feature of this book  
is the extensive use of  
MATLAB-based examples that

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illustrate the program's powerful capability to solve signal processing problems. The book is intended for a course on digital signal processing for seniors or first-year

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graduate students. This highly popular book introduces the tools used in the analysis and design of discrete-time systems for signal processing. A number of changes have

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been made to the book's content, based on reviewer and student comments.

In this supplementary text, MATLAB is used as a computing tool to explore traditional DSP topics and

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solve problems to gain insight. This greatly expands the range and complexity of problems that students can effectively study in the course. Since DSP



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applications are primarily algorithms implemented on a DSP processor or software, a fair amount of programming is required. Using interactive software such as MATLAB makes it

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possible to place more emphasis on learning new and difficult concepts than on programming algorithms. Interesting practical examples are discussed and useful

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problems are explored.

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performance, yield, and  
reliability. Its  
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engineers to create  
virtual prototypes of*



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circuit performance  
automatically. This book  
is the fifth of a five-  
part series of books  
covering PSpice 10.5 and  
all of its applications.*

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*This book examines  
linear time invariant  
systems starting with  
the difference equation  
and applying the z-  
transform to produce a  
range of filter type*

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*i.e. low-pass, high-pass, and bandpass.*

*Convolution is examined, followed by digital oscillators, including quadrature carrier generation, are then*

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*examined. Several filter design methods are considered and include the bilinear transform, impulse invariant, and window techniques. A range of DSP*

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*applications are then  
considered and include  
the Hilbert transform,  
single sideband  
modulator using the  
Hilbert transform and  
quad oscillators,*

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*integrators and  
differentiators.  
Decimation and  
interpolation are  
simulated to demonstrate  
the usefulness of the  
multi-sampling*

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*environment. Decimation  
is also applied in a  
treatment on digital  
receivers. Lastly, we  
look at some musical  
applications for DSP  
such as*

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*reverberation/echo using  
real-world signals  
imported into PSpice  
using the program  
Wav2Ascii. The zero-  
forcing equalizer is  
dealt with in a*



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*simplistic manner and  
illustrates the  
effectiveness of  
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approaches in the design  
and implementation of  
multirate  
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detail with equal emphasis on theory and practice. The book is accompanied by a companion website that provides several MATLAB programs for the implementation of image processing algorithms. The book also offers comprehensive coverage of the



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following topics: Enhancement,  
Transform processing, Restoration,  
Registration, Reconstruction from  
projections, Morphological image  
processing, Edge detection, Object  
representation and classification,  
Compression, and Color processing.  
Digital Signal Processing: A Computer-

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Based Approach is intended for a two-semester course on digital signal processing for seniors or first-year graduate students. Based on user feedback, a number of new topics have been added to the third edition, while some excess topics from the second edition have been removed.

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The author has taken great care to organize the chapters more logically by reordering the sections within chapters. More worked-out examples have also been included. The book contains more than 500 problems and 150 MATLAB exercises. New topics in the third edition include: short-time

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characterization of discrete-time signals, expanded coverage of discrete-time Fourier transform and discrete Fourier transform, prime factor algorithm for DFT computation, sliding DFT, zoom FFT, chirp Fourier transform, expanded coverage of z-transform, group delay

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equalization of IIR digital filters,  
design of computationally efficient  
FIR digital filters, semi-symbolic  
analysis of digital filter structures,  
spline interpolation, spectral  
factorization, discrete wavelet  
transform.

DIGITAL SIGNAL PROCESSING

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LABORATORY USING MATLAB is intended for a computer-based DSP laboratory course that supplements a lecture course on Digital Signal Processing. The book can be used either as a stand-alone text or in conjunction with Mitra's Digital Signal Processing: A Computer-Based

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Approach. The book includes 11 laboratory exercises, with each exercise containing a number of projects to be carried out on a computer. The book assumes that the reader has no background in MATLAB and teaches the reader, through tested programs in the first half of the

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book, the basics of this powerful language in solving important problems in signal processing. In the second half of the book, the student is asked to write the necessary MATLAB programs to carry out the projects.

The Nonuniform Discrete Fourier



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Transform and Its Applications in  
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Special Issue on Hardware and  
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Synthesis and Optimization of  
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approaches taken to synthesising  
structural hardware descriptions  
of digital circuits from high-level  
descriptions of Digital Signal  
Processing (DSP) algorithms. The

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book contains: -A tutorial on the subjects of digital design and architectural synthesis, intended for DSP engineers, -A tutorial on the subject of DSP, intended for digital designers, -A discussion of techniques for estimating the

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peak values likely to occur in a DSP system, thus enabling an appropriate signal scaling.

Analytic techniques, simulation techniques, and hybrids are discussed. The applicability of different analytic approaches to

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different types of DSP design is covered, -The development of techniques to optimise the precision requirements of a DSP algorithm, aiming for efficient implementation in a custom parallel processor. The idea is to

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trade-off numerical accuracy for area or power-consumption advantages. Again, both analytic and simulation techniques for estimating numerical accuracy are described and contrasted. Optimum and heuristic

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approaches to precision  
optimisation are discussed, -A  
discussion of the importance of  
the scheduling, allocation, and  
binding problems, and  
development of techniques to  
automate these processes with

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reference to a precision-optimized algorithm, -Future perspectives for synthesis and optimization of DSP algorithms.

Considering the rapid evolution of digital signal processing (DSP), those studying this field require an



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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

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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

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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.

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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

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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: Theory—Explaining the underlying mathematics and

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principles Problem  
solving—Offering an ample  
amount of workable problems for  
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The text covers the progression of

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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



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includes appendices that give detailed descriptions of hardware along with instructions on how to use the equipment featured in the book.

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Multidimensional Processing of  
Video Signals

Digital Signal Processing Using

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MATLAB

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basic activities and respond  
to their environment. When  
looking specifically at cancer  
cells, researchers can gain a  
better understanding of  
cancer on a cellular level, an**



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**understanding that may  
have implications for  
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**and researcher Porat  
presents a clear,  
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reinforced through the use  
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