

# **DIGITAL SIGNAL PROCESSING**

## **LAB MANUAL**

### **R-16 REGULATION**

**FOR IV B.Tech (ECE) : I – SEMESTER**

Prepared By

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# Dsp Lab Manual Anna University

**Donald S. Reay**



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*Who's Who in Science and Engineering 2008-2009* Who's Who Marquis, Marquis Who's Who, 2007-12      **Who's who in America** ,2003      **Who's who in the South and Southwest** ,1993      Digital Signal Processing Laboratory Using Real-Time Implementations of Audio Applications William F. Lipstreu, 2009 In the 21st century digital signal processing DSP is at the core of most technologies which either directly or indirectly rely on the representation and processing of digital data All engineering disciplines in this information age need to have a basic understanding of how data from real world experiments and systems are acquired and processed to extract useful information In most college curricula there are a myriad of DSP textbooks and courses that are typically accompanied by complex mathematical proofs and theoretical derivations However it is important to integrate classroom concepts with hardware implementations to give students experience with real world applications Synthesizing design parameters and translating them to work within the confines of a real time system is an invaluable and necessary skill for modern engineers In this thesis we develop a comprehensive set of laboratory experiments to demonstrate the theory and applications of digital signal processing through the means of audio applications      Real-Time Digital Signal Processing Sen M. Kuo, Bob H. Lee, Wenshun Tian, 2006-05-01 Real time Digital Signal Processing Implementations and Applications has been completely updated and revised for the 2nd edition and remains the only book on DSP to provide an overview of DSP theory and programming with hands on experiments using MATLAB C and the newest fixed point processors from Texas Instruments TI      *DADISP Student Manual Package* DSP Development Corp. Staff, Development Corp DSP, 1998-12 BASIC APPROACH For courses in Digital Signal Processing *DSP for MATLAB and LabVIEW: Fundamentals of discrete signal processing* Forester W. Isen, 2008 This book is Volume I of the series DSP for MATLAB TM and LabVIEW TM The entire series consists of four volumes that collectively cover basic digital signal processing in a practical and accessible manner but which nonetheless include all essential foundation mathematics As the series title implies the scripts of which there are more than 200 described in the text and supplied in code form available at [www.morganclaypool.com](http://www.morganclaypool.com) page isen will run on both MATLAB and LabVIEW Volume I consists of four chapters The first chapter gives a brief overview of the field of digital signal processing This is followed by a chapter detailing many useful signals and concepts including convolution recursion difference equations LTI systems etc The third chapter covers conversion from the continuous to discrete domain and back i e analog to digital and digital to analog conversion aliasing the Nyquist rate normalized frequency conversion from one sample rate to another waveform generation at various sample rates from stored wave data and Mu law compression The fourth and final chapter of the present volume introduces the reader to many important principles of signal processing including correlation the correlation sequence the Real DFT correlation by convolution matched filtering simple FIR filters and simple IIR filters Chapter 4 in particular provides an intuitive or first principle understanding of how digital filtering and frequency transforms work preparing the

reader for Volumes II and III which provide respectively detailed coverage of discrete frequency transforms including the Discrete Time Fourier Transform the Discrete Fourier Transform and the z Transform and digital filter design FIR design using Windowing Frequency Sampling and Optimum Equiripple techniques and Classical IIR design Volume IV the culmination of the series is an introductory treatment of LMS Adaptive Filtering and applications The text for all volumes contains many examples and many useful computational scripts augmented by demonstration scripts and LabVIEW Virtual Instruments VIs that can be run to illustrate various signal processing concepts graphically on the user s computer screen Table of Contents An Overview of DSP Discrete Signals and Concepts Sampling and Binary Representation Transform and Filtering Principles

**DSP for MATLAB<sup>TM</sup> and LabVIEW<sup>TM</sup> I** Forester W. Isen, 2009-03-08 This book is Volume I of the series DSP for MATLAB<sup>TM</sup> and LabVIEW<sup>TM</sup> The entire series consists of four volumes that collectively cover basic digital signal processing in a practical and accessible manner but which nonetheless include all essential foundation mathematics As the series title implies the scripts of which there are more than 200 described in the text and supplied in code form here will run on both MATLAB and LabVIEW Volume I consists of four chapters The first chapter gives a brief overview of the field of digital signal processing This is followed by a chapter detailing many useful signals and concepts including convolution recursion difference equations LTI systems etc The third chapter covers conversion from the continuous to discrete domain and back i e analog to digital and digital to analog conversion aliasing the Nyquist rate normalized frequency conversion from one sample rate to another waveform generation at various sample rates from stored wave data and Mu law compression The fourth and final chapter of the present volume introduces the reader to many important principles of signal processing including correlation the correlation sequence the Real DFT correlation by convolution matched filtering simple FIR filters and simple IIR filters Chapter 4 in particular provides an intuitive or first principle understanding of how digital filtering and frequency transforms work preparing the reader for Volumes II and III which provide respectively detailed coverage of discrete frequency transforms including the Discrete Time Fourier Transform the Discrete Fourier Transform and the z Transform and digital filter design FIR design using Windowing Frequency Sampling and Optimum Equiripple techniques and Classical IIR design Volume IV the culmination of the series is an introductory treatment of LMS Adaptive Filtering and applications The text for all volumes contains many examples and many useful computational scripts augmented by demonstration scripts and LabVIEW Virtual Instruments VIs that can be run to illustrate various signal processing concepts graphically on the user s computer screen Table of Contents An Overview of DSP Discrete Signals and Concepts Sampling and Binary Representation Transform and Filtering Principles

**Lab Manual** Jeffrey S. Beasley, Mark E. Oliver, 2004-12

**Lab Manual** Richard M. White, White, Roger W. Doering, 1996-11-12

**Introduction to Digital Signal Processing** Tae Hong Park, 2010 Offers an introduction to digital signal processing DSP with an emphasis on digital audio and computer music This book covers the mathematical foundations of DSP important DSP theories including classic

sound synthesis algorithms and effects as well as time and frequency domain analyses and associated musical and sound examples

**DSP First** James H. McClellan, 1997

**DSP Applications Using C and the TMS320C6x** DSK Rulph Chassaing, 2003-04-08 TMS320C6x ist die DSP Familie der n chsten Generation von Texas Instruments die bei 1600MIPS 200MHz arbeitet und zehnmal leistungsf higer als die besten derzeit verf gbaren DSPs ist Hauptanwendung ist die drahtlose Kommunikation Mehr als 60 Prozent der Mobiltelefone enthalten bereits DSP basierte TMS320 Verarbeitungsschaltkreise F hrende Hersteller wie Ericsson Nokia Sony und Handspring verlassen sich f r ihre Ger te der dritten Generation auf diese Technologie Dieses Buch f hrt Sie in die digitalen Techniken der Wellenformerzeugung der Digitalfilter und der digitalen Signalverarbeitungstools und ein Das Konzept wurde anhand von Kursen und Seminaren erarbeitet die von TI gesponsort wurden Alle Beispielprogramme k nnen Sie vom FTP Server von Wiley abrufen

Solutions Manual to Accompany First Principles of Discrete Systems and Digital Signal Processing Robert D. Strum, Donald E. Kirk, 1988-01

**DSP-Based Testing of Analog and Mixed-Signal Circuits** Matthew Mahoney, 1987-05-11 Answers the commonly asked questions about how digital signal processing based machines work and what role DSP plays in the process It shows you how DSP performs in real test situations and uses mathematical concepts rather than derivations The text addresses difficult test problems and their solutions resulting from the union of automatic test equipment ATE and DSP The author establishes a philosophy of DSP based testing describing how to think how to approach a problem how to create a solution and how to determine if it really works properly

The DSP Handbook Andrew Bateman, Iain Paterson-Stephens, 2002 CD ROM contains a series of applications which have been designed to support the different topics covered

**Digital Signal Processing and Applications** Dag Stranneby, 2004-09-10 A uniquely practical DSP text this book gives a thorough understanding of the principles and applications of DSP with a minimum of mathematics and provides the reader with an introduction to DSP applications in telecoms control engineering and measurement and data analysis systems The new edition contains Expanded coverage of the basic concepts to aid understanding New sections on filter synthesis control theory and contemporary topics of speech and image recognition Full solutions to all questions and exercises in the book Assuming the reader already has some prior knowledge of signal theory this textbook will be highly suitable for undergraduate and postgraduate students in electrical and electronic engineering taking introductory and advanced courses in DSP as well as courses in communications and control systems engineering It will also prove an invaluable introduction to DSP and its applications for the professional engineer Expanded coverage of the basic concepts to aid understanding along with a wide range of DSP applications New textbook features included throughout including learning objectives summary sections exercises and worked examples to increase accessibility of the text Full solutions to all questions and exercises included in the book

Understanding Digital Signal Processing Richard G. Lyons, 2010-11-01 Amazon.com's Top Selling DSP Book for Seven Straight Years Now Fully Updated Understanding Digital Signal Processing Third Edition is quite simply the best resource for engineers and other

technical professionals who want to master and apply today's latest DSP techniques Richard G Lyons has updated and expanded his best selling second edition to reflect the newest technologies building on the exceptionally readable coverage that made it the favorite of DSP professionals worldwide He has also added hands on problems to every chapter giving students even more of the practical experience they need to succeed Comprehensive in scope and clear in approach this book achieves the perfect balance between theory and practice keeps math at a tolerable level and makes DSP exceptionally accessible to beginners without ever oversimplifying it Readers can thoroughly grasp the basics and quickly move on to more sophisticated techniques This edition adds extensive new coverage of FIR and IIR filter analysis techniques digital differentiators integrators and matched filters Lyons has significantly updated and expanded his discussions of multirate processing techniques which are crucial to modern wireless and satellite communications He also presents nearly twice as many DSP Tricks as in the second edition including techniques even seasoned DSP professionals may have overlooked Coverage includes New homework problems that deepen your understanding and help you apply what you've learned Practical day to day DSP implementations and problem solving throughout Useful new guidance on generalized digital networks including discrete differentiators integrators and matched filters Clear descriptions of statistical measures of signals variance reduction by averaging and real world signal to noise ratio SNR computation A significantly expanded chapter on sample rate conversion multirate systems and associated filtering techniques New guidance on implementing fast convolution IIR filter scaling and more Enhanced coverage of analyzing digital filter behavior and performance for diverse communications and biomedical applications Discrete sequences systems periodic sampling DFT FFT finite infinite impulse response filters quadrature I/Q processing discrete Hilbert transforms binary number formats and much more **A**

**Textbook of Digital Signal Processing** R.S. Kaler, M. Kulkarni, 2009-07-11 This book presents theoretical and application topics in digital signal processing DSP The topics here comprise clever DSP tricks of the trade not covered in traditional DSP textbooks Here we go beyond the standard DSP fundamentals textbook and present new but tried and true clever implementations of digital filter design spectrum analysis signal generation high speed function approximation and various other DSP functions With this book we wished to create a resource that is relevant to the needs of the working DSP engineer by helping bridge the theory to practice gap between introductory DSP textbooks and the esoteric difficult to understand academic journals This book will be useful to experienced DSP engineers due to its gentle tutorial style it will also be of considerable value to the DSP beginner The mathematics used herein is simple algebra and the arithmetic of complex numbers making this material accessible to a wide engineering and scientific audience Fortunately the chapter topics in this book are written in a standalone manner so the subject matter can be read in any desired order **Digital Signal**

**Processing and Applications with the OMAP - L138 eXperimenter** Donald S. Reay, 2012-03-02 Teaches digital signal processing concepts via hands on examples The OMAP L138 eXperimenter is the latest inexpensive DSP development system

to be adopted by the Texas Instruments University Program The OMAP L138 processor contains both ARM and DSP cores and is aimed at portable and mobile multimedia applications This book concentrates on the demonstration of real time DSP algorithms implemented on its C6748 DSP core Digital Signal Processing and Applications with the OMAP L138 eXperimenter provides an extensive and comprehensive set of program examples to aid instructors in teaching DSP in a laboratory using audio frequency signals making it an ideal text for DSP courses at senior undergraduate and postgraduate levels Subjects covered include polling based interrupt based and DMA based I O methods and how real time programs may be run using the board support library BSL the DSP BIOS real time operating system or the DSP BIOS Platform Support Package Chapters include Analog input and output with the OMAP L138 eXperimenter Finite impulse response filters Infinite impulse response filters Fast Fourier transform Adaptive filters DSP BIOS and platform support package Each chapter begins with a review of background theory and then presents a number of real time program examples to reinforce understanding of that theory and to demonstrate the use of the OMAP L138 eXperimenter and Texas Instruments Code Composer Studio integrated development environment

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