

# Digital Signal Processing

Laboratory Experiments  
Using C and the TMS320C31 DSK



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# Digital Signal Processing Laboratory Experiments Using C And The Tms320c31 Dsk

**Camilla Rothe**



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**DSP Applications Using C and the TMS320C6x DSK** Rulph Chassaing, 2003-04-08 TMS320C6x ist die DSP Familie der nächsten Generation von Texas Instruments die bei 1600 MIPS 200 MHz arbeitet und zehnmal leistungsfähiger als die besten derzeit verfügbaren DSPs ist Hauptanwendung ist die drahtlose Kommunikation Mehr als 60 Prozent der Mobiltelefone enthalten bereits DSP basierte TMS320 Verarbeitungsschaltkreise Führende Hersteller wie Ericsson Nokia Sony und Handspring verlassen sich für ihre Geräte der dritten Generation auf diese Technologie Dieses Buch führt 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 können Sie vom FTP Server von Wiley abrufen

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development of actual programming examples the book demonstrates how DSP theory is put to practical use Current problems in digital signal filtering such as finite impulse response filters infinite impulse response filters and fast Fourier transform are addressed through the step by step implementation of assembly language code for a modern real time digital signal processor the TMS320C25 Hardware considerations specific to the TMS320C25 such as memory organization addressing modes and representation of fixed and floating point numbers are discussed in relation to software development 1990 0 471 51066 1 464 pp Digital Filter Design T W Parks and C S Burrus The book is excellently written and fully illustrated it will soon become a reference book in the area of digital filter design Mathematics Abstracts With coverage from basic theory to working programs this clear practical text addresses frequency domain analysis design and implementation of linear constant coefficient digital filters on general purpose computers and special purpose signal processors Offering a complete self contained treatment of both FIR and IIR filters a feature unique to this text the book examines their underlying design theory design formulas and algorithms Detailed coverage also includes a discussion of filter properties the approximation problem and implementation of the filter with fixed point arithmetic The book also includes detailed examples that illustrate the design and implementation of a typical filter as well as listings for nine FORTRAN programs for filter design 1987 0 471 82896 3 342 pp DFT FFT And Convolution Algorithms Theory and Implementation C S Burrus and T W Parks Written for the scientist or engineer conversant with continuous time signals and discrete time signal analysis this book details the Fourier transform of a discrete time signal Efficient algorithms for computing the Discrete Fourier Transform DFT are given special emphasis Coverage includes continuous and discrete time transform analysis of signals and properties of the DFT methods of computing the DFT at a few frequencies direct Goertzel and chirp transforms and the three main approaches to an FFT Cooley Tukey primefactor and Winograd transforms The book also features FORTRAN programs for the DFT which may be used directly or as a basis for custom program development for special applications 1985 0 471 81932 8 232 pp

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**Digital Signal Processing Laboratory** B. Preetham Kumar, 2016-04-19 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* *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

*Encyclopedia of Library and Information Science* Allen Kent, 2001-11-02 This is the 70th encyclopaedia of library and information science It covers topics such as intelligent systems for problem analysis in organizations interactive system design international models of school library development lexicalization in natural language generation and more

**Identification and Control of a Subwoofer System Using the TMS320C31 DSK DSP Card** Scott Yewell, 1999

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