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This book clearly explains digital signal processing principles and shows how they can be used to build DSP systems. The aim is to give enough insight and practical guidance to enable an engineer to construct DSP systems. The book's programs are written in C, the language used in DSP.

PSpice is a software package that provides robust, advanced circuit analysis tools to improve design performance, yield, and reliability. Its capabilities enable engineers to create virtual prototypes of designs and maximize circuit performance automatically. This book is the fifth of a five-part series of books covering PSpice 10.5 and all of its applications. This book examines linear time invariant systems starting with the difference equation and applying the z-transform to produce a range of filter type i.e. low-pass, high-pass, and bandpass. Convolution is examined, followed by digital oscillators, including quadrature carrier generation, are then examined. Several filter design methods are considered and include the bilinear transform, impulse invariant, and window techniques. A range of DSP applications

are then considered and include the Hilbert transform, single sideband modulator using the Hilbert transform and quad oscillators, integrators and differentiators. Decimation and interpolation are simulated to demonstrate the usefulness of the multi-sampling environment. Decimation is also applied in a treatment on digital receivers. Lastly, we look at some musical applications for DSP such as reverberation/echo using real-world signals imported into PSpice using the program Wav2Ascii. The zero-forcing equalizer is dealt with in a simplistic manner and illustrates the effectiveness of equalizing signals in a receiver after transmission. Other books in the series: PSpice for Circuit Theory and Electronic Devices (9781598291568) PSpice for Filters and Transmission Lines (9781598291582) PSpice for Analog Communications Engineering (9781598291605) PSpice for Digital Communications Engineering (9781598291629)

Digital Design of Signal Processing Systems discusses a spectrum of architectures and methods for effective implementation of algorithms in hardware (HW). Encompassing all facets of the subject this book includes conversion of algorithms from floating-point to fixed-point format, parallel architectures for basic computational blocks, Verilog Hardware Description Language (HDL), SystemVerilog and coding guidelines for synthesis. The book also covers system level design of Multi Processor System on Chip (MPSoC); a consideration of different design methodologies including Network on Chip (NoC) and Kahn Process Network (KPN) based connectivity among processing elements. A special emphasis is placed on implementing streaming applications like a digital communication system in HW. Several novel architectures for implementing commonly used algorithms in signal processing are also revealed.

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With a comprehensive coverage of topics the book provides an appropriate mix of examples to illustrate the design methodology. Key Features: A practical guide to designing efficient digital systems, covering the complete spectrum of digital design from a digital signal processing perspective Provides a full account of HW building blocks and their architectures, while also elaborating effective use of embedded computational resources such as multipliers, adders and memories in FPGAs Covers a system level architecture using NoC and KPN for streaming applications, giving examples of structuring MATLAB code and its easy mapping in HW for these applications Explains state machine based and Micro-Program architectures with comprehensive case studies for mapping complex applications The techniques and examples discussed in this book are used in the award winning products from the Center for Advanced Research in Engineering (CARE). Software Defined Radio, 10 Gigabit VoIP monitoring system and Digital Surveillance equipment has respectively won APICTA (Asia Pacific Information and Communication Alliance) awards in 2010 for their unique and effective designs.

Presents an advanced overview of Digital Signal Processing and its applications to exploration seismology, for electrical engineers, geophysicists and petroleum professionals.

From the acclaimed Emmanuel Carr è re, an act of generous imagination that unflinchingly records devastating loss and, equally vividly, the wealth of human solace that follows in its wake In Sri Lanka, a tsunami sweeps a child out to sea, her grand-father helpless against the onrushing water. In France, a young woman succumbs to illness, leaving her husband and small children bereft. Present at both events, Emmanuel Carr è re sets out to tell the story of two families—shattered and ultimately restored. What he accomplishes is nothing short of a literary miracle: a heartrending narrative of endless love, a meditation

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on courage and decency in the face of adversity, an intimate and reverent look at the extraordinary beauty and nobility of ordinary lives. Precise, sober, and suspenseful, as full of twists and turns as any novel, *Lives Other Than My Own* confronts terrifying catastrophes to illuminate the astonishing richness of human connection: a grandfather who thought he had found paradise—too soon—and now devotes himself to helping his neighbors rebuild their village; a husband so in love with his ailing wife that he carries her in his arms like a knight does his princess; and finally, Carr è re himself, longtime chronicler of the tormented self, who unexpectedly finds consolation and even joy as he immerses himself in the lives of others.

Intended as a text for three courses—Signals and Systems, Digital Signal Processing (DSP), and DSP Architecture—this comprehensive book now in its Third Edition, continues to provide a thorough understanding of digital signal processing, beginning from the fundamentals to the implementation of algorithms on a digital signal processor. This Edition includes Assembly, C and real time C programs for TMS 320C54XX and 320C6713 processor, which are useful to conduct a laboratory course in Digital Signal Processing. Besides, many existing chapters are modified substantially to widen the coverage of the book. Primarily designed for undergraduate students of Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Electrical and Electronics Engineering, Instrumentation and Control Engineering, Computer Science and Information Science, this text will also be useful for advanced digital signal processing and real time digital signal processing courses of postgraduate programmes.

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