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Essentials of Digital Signal Processing

Your modern PC, though, has a lot of instructions, many of them meant for specialized operating system, encryption, or digital signal processing features. There are known undocumented instructions ...

Find Instructions Hidden In Your CPU

The CoolFlux DSP is the very first DSP core in the DesignWare Star ... is fully reusable and compliant with the 'Reuse Methodology Manual' (RMM). The CoolFlux DSP will be distributed as a ...

CoolFlux Collaboration

If you are working in digital signal processing, control or numerical analysis, you will find this authoritative analysis of quantization noise (roundoff error) invaluable. Do you know where the ...

Roundoff Error in Digital Computation, Signal Processing, Control, and Communications

To help readers gain a greater understanding about this emerging area of information technology, the solutions available ... that Oracle Audiences are now integrated with Amazon DSP to provide ...

Data Integration

DSP-based applications such as set-top boxes and graphics controllers ... are the coding and design guidelines that are documented in the Reuse Methodology Manual (RMM) [1]. Adhering to these may mean ...

Collaborating to deliver open licensing for IBM PowerPC cores

Fourth generation TeakLite® DSP architecture offered in a series of four DSP cores, differing in performance, die size and system interfaces; Incorporates smart power management technology and support ...

CEVA Introduces CEVA-TeakLite-4 – The Most Powerful, Low Power 32-bit DSP Architecture Framework for Advanced Audio and Voice Applications

BiuStream ' s new presentation switch is a BYOD, hotspot, and multi-viewing solution, that supports AirPlay and Miracast ... The AMF41W includes auto display control via RS-232, manual, or automated ...

Biustream ' s 4K Presentation Switch Simplifies Meeting Spaces

Cadence Design Systems, Inc. (Nasdaq: CDNS) today unveiled the Cadence ® Tensilica ® FloatingPoint DSP family, which provides a scalable and configurable solution designed specifically for ...

New Cadence Tensilica FloatingPoint DSP Family Delivers Scalable Performance for a Broad Range of Compute-Intensive Applications

These new DSP IP cores extend from small, ultra-low power to very high performance and are well-suited for a broad array of applications ranging from: energy-efficient solutions for battery ... units ...

Cadence Tensilica FloatingPoint DSP family targets compute-intensive applications

The common culprit blamed for this was that the Jaguar ' s DSP was already being used for ... than try and spend more time engineering a solution. To compensate for the lack of in-game music ...

Doing What Id Couldn ' t: Returning Music To Jaguar Doom

The Tactical Communications Bridge-1 from Tracer Technology Systems, Inc. is the first in a line of products that offers a solution to your ... and powerful DSP based digital audio interface.

Tactical Communications Bridge-1

MAAT Incorporated, a manufacturer of exceptional performance professional audio solutions, today announced ... extensive research and its double precision DSP (Digital Signal Processing) ...

MAAT Redefines Dithering for Digital Audio

Through assignments and projects, students learn how to: identify a problem, develop alternative solutions, select the best alternative ... lectures will delve into more depth on time domain digital ...

Mechanical Engineering Course Listing

First launched in 2010, they were the result of Yamaha rethinking ... Yamaha has been offering ' sound fields ' on its receivers since at least 1985, when the DSP-1 offered the ability to expand stereo ...

Yamaha Aventure RX-A2A review

Audeze includes the most comprehensive manual I ... the Mobius as the first surround sound headset with accurate 3D head tracking and they have delivered. The built-in DSP of the Mobius offers ...

Audeze Mobius review: Being the first isn't cheap

Previous teams have worked on everything from stand-alone energy, health devices, solutions for healthy aging, technology for education and more! First come ... control system design and digital ...

Technology Entrepreneurship@SFU: An Innovate BC Program

First launched in 2010 ... been offering ' sound fields ' on its receivers since at least 1985, when the DSP-1 offered the ability to expand stereo signals into surround sound, or to process ...

For introductory courses (freshman and sophomore courses) in Digital Signal Processing and Signals and Systems. Text may be used before the student has taken a course in circuits. DSP First and it's accompanying digital assets are the result of more than 20 years of work that originated from, and was guided by, the premise that signal processing is the best starting point for the study of electrical and computer engineering. The "DSP First" approach introduces the use of mathematics as the language for thinking about engineering problems, lays the groundwork for subsequent courses, and gives students hands-on experiences with MATLAB. The Second Edition features three new chapters on the Fourier Series, Discrete-Time Fourier Transform, and the The Discrete Fourier Transform as well as updated labs, visual demos, an update to the existing chapters, and hundreds of new homework problems and solutions.

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Presents basic DSP concepts in a clear and intuitive style, with a hands-on practical approach.

Master the basic concepts and methodologies of digital signal processing with this systematic introduction, without the need for an extensive mathematical background. The authors lead the reader through the fundamental mathematical principles underlying the operation of key signal processing techniques, providing simple arguments and cases rather than detailed general proofs. Coverage of practical implementation, discussion of the limitations of particular methods and plentiful MATLAB illustrations allow readers to better connect theory and practice. A focus on algorithms that are of theoretical importance or useful in real-world applications ensures that students cover material relevant to engineering practice, and equips students and practitioners alike with the basic principles necessary to apply DSP techniques to a variety of applications. Chapters include worked examples, problems and computer experiments, helping students to absorb the material they have just read. Lecture slides for all figures and solutions to the numerous problems are available to instructors.

Starts with an overview of today's FPGA technology, devices, and tools for designing state-of-the-art DSP systems. A case study in the first chapter is the basis for more than 30 design examples throughout. The following chapters deal with computer arithmetic concepts, theory and the implementation of FIR and IIR filters, multirate digital signal processing systems, DFT and FFT algorithms, and advanced algorithms with high future potential. Each chapter contains exercises. The VERILOG source code and a glossary are given in the appendices, while the accompanying CD-ROM contains the examples in VHDL and Verilog code as well as the newest Altera "Baseline" software. This edition has a new chapter on adaptive filters, new sections on division and floating point arithmetics, an up-date to the current Altera software, and some new exercises.

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

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