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Direct support professionals (DSP) provide essential services to people with intellectual and developmental disabilities (IDD), but they're in short supply. Before COVID-19, almost 46% of DSPs quit ...

Person-Centered Approach Key to Supporting People with Intellectual and Developmental Disabilities  
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Accuracy takes power: one man's 3GHz quest to build a perfect SNES emulator As the lead coder of bsnes, I've been attempting to perfect Super Nintendo emulation for the past 15 years. We are now at a ...

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These are typically implemented inside of the Ethernet transceiver silicon by using the device DSP engine. The first of these algorithms, standardized by the IEEE under the auspices of the 802.3az ...

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This nascent self-serve offering, Illumin grew 100% sequentially to \$3.2 million in revenue during the first quarter of 2021 ... edge over other companies seeking to integrate their solutions with a ...

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While ANC is nothing new to audiophiles, the technology has grown in popularity since a well-known Californian company released its first earbuds featuring ... digital signal processors (DSP), the ...

Adaptive ANC solutions bring enhanced audio capabilities  
SAN JOSE, Calif., July 01, 2021 (GLOBE NEWSWIRE) -- DSP Group, Inc. (NASDAQ: DSPG), a leading global provider of wireless and voice-processing chipset solutions for converged communications, and ...

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She suggested DSP Equal Nifty 50 Index Fund ... think you're talking about flexi-cap so you can't go without naming Parag Parikh Flexi-Cap Fund. The first reason being that it has a beta of just about ...

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This unique combined IP offering is an industry-first and addresses emerging ... aerospace & defense and IoT. Our DSP-based solutions include platforms for 5G baseband processing in mobile ...

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Demand-side platform (DSP), MediaMath, has collaborated with Airtel for ad tech solutions. With this ... India at MediaMath. "As the first independent DSP to have a physical presence in the local ...

MediaMath and Airtel announce ad tech partnership in India  
Doceree is the only platform in this category which owns all 3 components of an Ad Exchange – SSP, DSP and DMP ... a year of our commencement in the first launch market validates the ...

Doceree Closes Pre-Series A Funding Round  
FreeRTOS offers a homogenous and scalable programming interface that can run existing and future workloads and now, for the first time in an upstream version ... communications and DSP in an ...

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"This will further cement our position as the transformation partner of choice in the DSP industry. We look forward to building a truly digital-first experience for Liberty Latin America's customers." ...

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The initiative aims to define and develop semiconductor solutions for advanced data center architectures ... "The industry-leading PHYs and DSP design expertise from AnalogX will feed our roadmap for ...

Week In Review: Design, Low Power  
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July 01, 2021 (GLOBE NEWSWIRE) -- DSP Group, Inc. (NASDAQ: DSPG), a leading global provider of wireless and voice-processing chipset solutions for converged communications, and Alango Technologies ...

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 Founer 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.

The subject of Digital Signal Processing (DSP) is enormously complex, involving many concepts, probabilities, and signal processing that are woven together in an intricate manner. To cope with this scope and complexity, many DSP texts are often organized around the "numerical examples" of a communication system. With such organization, readers can see through the complexity of DSP, they learn about the distinct concepts and protocols in one part of the communication system while seeing the big picture of how all parts fit together. From a pedagogical perspective, our personal experience has been that such approach indeed works well. Based on the authors' extensive experience in teaching and research, Digital Signal Processing: A Breadth-First Approach is written with the reader in mind. The book is intended for a course on digital signal processing, for seniors and undergraduate students. The subject has high popularity in the field of electrical and computer engineering, and the authors consider all the needs and tools used in analysis and design of discrete time systems for signal processing. Key features of the book include: [] The extensive use of MATLAB based examples to illustrate how to solve signal processing problems. The textbook includes a wealth of problems, with solutions [] Worked-out examples have been included to explain new and difficult concepts, which help to expose the reader to real-life signal processing problems [] The inclusion of FIR and IIR filter design further enrich the contents.

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.

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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 (IQ) processing, discrete Hilbert transforms, binary number formats, and much more

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.

If you understand basic mathematics and know how to program with Python, you're ready to dive into signal processing. While most resources start with theory to 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, 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 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 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 theory Amplitude modulation (AM) used in radio Other books in this series include Think Stats and Think Bayes, also by Allen Downey.