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For hackers on a tight budget or with limited bench space, a USB oscilloscope can be a compelling alternative to a dedicated piece of hardware. For plenty of hobbyists, it's a perfectly valid ...

A Physical Front Panel For Oscilloscope Software

Unfortunately, only recently have 70 MHz to 100 MHz become really affordable, whilst a new quad channel oscilloscope in the 500 MHz to 1 GHz range still costs a

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fortune to acquire. My only option ...

FPGA Rescues Scope From The Dumpster

The latest high-bandwidth scopes from Agilent, LeCroy ... The frequency response of the oscilloscope should have smooth rolloff at 3 dB and achieve a 3-dB point that is adequate to represent ...

Wring Performance From High-Bandwidth Scopes

A software tool used in software programming that abstracts all the programming steps into a user interface for the developer. An application programming interface (API) is a software tool used in ...

Application Programming Interface (API)

Description: The InfiniiVision 2000 X-Series offers entry-level price points to fit your budget with superior performance

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and optional capabilities that are not available in any other oscilloscope in ...

5 MHz Oscilloscopes

Description: -in-class oscilloscope The InfiniiVision 2000 X-Series features the deepest memory in its class with 100 kpts of Agilent's patented MegaZoom IV technology that is always enabled and ...

50 MHz Oscilloscopes

The graphics processing unit (GPU) is a processing unit designed to handle graphics (2D and 3D) and video more efficiently. Originally designed for the gaming industry, GPUs are now frequently used as ...

Now in a new edition—the most

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comprehensive, hands-on introduction to digital signal processing The first edition of Digital Signal Processing and Applications with the TMS320C6713 and TMS320C6416 DSK is widely accepted as the most extensive text available on the hands-on teaching of Digital Signal Processing (DSP). Now, it has been fully updated in this valuable Second Edition to be compatible with the latest version (3.1) of Texas Instruments Code Composer Studio (CCS) development environment. Maintaining the original's comprehensive, hands-on approach that has made it an instructor's favorite, this new edition also features: Added program examples that illustrate DSP concepts in real-time and in the laboratory Expanded coverage of analog input and output New material on frame-based processing A revised chapter on IIR, which includes a number of floating-point example programs that

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explore IIR filters more comprehensively
More extensive coverage of DSP/BIOS
All programs listed in the text—plus
additional applications—which are
available on a companion CD-ROM No
other book provides such an extensive or
comprehensive set of program examples to
aid instructors in teaching DSP in a
laboratory using audio frequency
signals—making this an ideal text for DSP
courses at the senior undergraduate and
postgraduate levels. It also serves as a
valuable resource for researchers, DSP
developers, business managers, and
technology solution providers who are
looking for an overview and examples of
DSP algorithms implemented using the
TMS320C6713 and TMS320C6416 DSK.

Considering the rapid evolution of digital
signal processing (DSP), those studying
this field require an easily understandable

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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, Second Edition was developed using material and student input from courses taught by the author. Contains a new section on digital filter structure Honed over the past several years, the information presented here reflects the experience and insight the author gained on how to convey the subject of DSP to senior undergraduate and graduate students coming from varied subject backgrounds. Using feedback from those students and faculty involved in these courses, this book integrates simultaneous training in both theory and practical software/hardware aspects of DSP. The practical component of the DSP course curriculum has proven to greatly

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enhance understanding of the basic theory and principles. To this end, chapters in the text contain sections on:

Theory—Explaining the underlying mathematics and principles
Problem solving—Offering an ample amount of workable problems for the reader
Computer laboratory—Featuring programming examples and exercises in MATLAB® and Simulink®
Hardware laboratory—Containing exercises that employ test and measurement equipment, as well as the Texas Instruments TMS320C6711 DSP Starter Kit

The text covers the progression of the Discrete and Fast Fourier transforms (DFT and FFT). It also addresses Linear Time-Invariant (LTI) discrete-time signals and systems, as well as the mathematical tools used to describe them. The author includes appendices that give detailed descriptions of hardware along with instructions on

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how to use the equipment featured in the book.

This book constitutes the thoroughly refereed post-proceedings of the Second International Workshop on Power-Aware Computer Systems, PACS 2002, held in Cambridge, MA, USA, in February 2002. The 13 revised full papers presented were carefully selected for inclusion in the book during two rounds of reviewing and revision. The papers are organized in topical sections on power-aware architecture and microarchitecture, power-aware real-time systems, power modeling and monitoring, and power-aware operating systems and compilers.

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Biotechnology Is One Of The Major New Technologies Of The Twenty-First Century That Covers Multi-Disciplinary Issues, Including Recombinant DNA Techniques, Cloning, Genetics, And The Application Of Microbiology To The Production Of Goods. It Continues To Revolutionize Treatments Of Many Diseases, And It Is Used To Deal With Environmental Solutions. The Biotechnology Procedures And Experiments Handbook Provides Practicing Professionals And Biotechnology Students Over 150 Applied, Up-To-Date Laboratory Techniques And Experiments Related To Modern Topics Such As Recombinant DNA, Electrophoresis, Stem Cell Research, Genetic Engineering, Microbiology, Tissue Culture, And More. Each Lab Technique Includes 1)A Principle, 2)The Necessary Reagents, 3)A

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Step By Step Procedure, And 4)A Final Result. Also Included Is A Section That Shows How To Avoid Potential Pitfalls Of A Specific Experiment. The Book Is Accompanied By A CD-ROM Containing Simulations, White Papers, And Other Relevant Material To Biotechnology.

This book is a tutorial on digital techniques for waveform generation, digital filters, and digital signal processing tools and techniques The typical chapter begins with some theoretical material followed by working examples and experiments using the TMS320C6713-based DSPStarter Kit (DSK) The C6713 DSK is TI's newest signal processor based on the C6x processor (replacing the C6711 DSK)

David Pozar, author of Microwave Engineering, Second Edition, has written a

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new text that introduces students to the field of wireless communications. This text offers a quantitative and, design-oriented presentation of the analog RF aspects of modern wireless telecommunications and data transmission systems from the antenna to the baseband level. Other topics include noise, intermodulation, dynamic range, system aspects of antennas and filter design. This unique text takes an integrated approach to topics usually offered in a variety of separate courses on topics such as antennas and propagation, microwave systems and circuits, and communication systems. This approach allows for a complete presentation of wireless telecommunications systems designs. The author's goal with this text is for the student to be able to analyze a complete radio system from the transmitter through the receiver front-end, and quantitatively

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evaluate factors. Suitable for a one-semester course, at the senior or first year graduate level. Note certain sections have been denoted as advanced topics, suitable for graduate level courses.

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