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In this role, Pistacchio will be the primary Navy advisor and consultant in the discipline of active and passive acoustic signal processing applied to research and development programs nationally ...

NUWC Division Newport selects senior technologist for Acoustic Signal Processing
Alps Alpine Co. Ltd. and Alpine Electronics of America Inc. are introducing what they call the □pinnacle of car audio□ □ AlpineF#1Status.

Alps Alpine Introduces □Pinnacle of Car Audio□ in AlpineF#1Status
For example, a microphone designed specifically for percussion and cymbals will likely sound very hollow and thin when used on acoustic ... best choice for live use, and using them in such a setting ...

The best condenser mic to start your recording repertoire
Don't get out of the water! Researchers on 'Jaws' coast are creating a system to enable predators and paddlers to live in harmony ...

Acoustic tags could help sharks and swimmers share Cape Cod waters by creating □great white forecasts□
As part of its commitment to bringing meaningful innovation to the local marketplace, LG Electronics (LG) has launched its TONE Free FN7 earbuds in KSA□ ...

LG□s Tone Free FN7 Earbuds Offer Hygenic Clean With Uvnano Case
During the last half century, the computer has become the central site of this research, including sound synthesis, digital signal processing and computer-assisted ... from the spectrum with those ...

Music and Science Meet at the Micro Level: Time-Frequency Methods and Granular Synthesis
John Francis Flynn's fairly avant-garde approach takes a group of old songs and realizes them in a beautifully modern way. [Photo by Ellius Grace.] Traditional Music / By Daniel Neely The young peop ...

Flynn album flows like a dream
Ateme□s Titan Live, Titan Mux and Titan File products provide, respectively, the video compression, stream processing and transcoding operations essential in creating a 3.0 signal ... 3.0 switch with ...

NextGen TV: The Expanding Universe of Tools to Deploy ATSC 3.0
□Since we were using the 13.1-channel Anthem audio processor, we split the audio signal on the side channels ... to enhance the way that the clients live. I t□s something well worth remembering □ that ...

Aussie home theatre rooms: Check out this Wavetrain Cinemas 17-speaker setup
It provides listeners with the emotional experience of a live performance, transforming a space used for transportation into a superior acoustic environment. AlpineF#1Status is the first in the ...

Alps Alpine Achieves First 384kHz/32bit High-Resolution Audio Playback for Car Audio Industry
Its sound is particularly impressive considering that these speakers do not perform any digital signal processing ... The speakers even come with acoustic isolation pads, which absorb extra ...

11 Best Desktop Computer Speakers for Amazing Sound
The open-back design might make them hard to use to monitor live recordings too but they ... to because of a nice bass bump or a cool signal processing effect, these bad boys are exactly what ...

11 Best Reference Headphones for the Studio
Noise-cancelling headphones use tiny microphones mounted on their exterior to constantly eavesdrop on the world around you; advanced audio processing then generates an opposite signal, cancelling ...

The Best Noise-Cancelling Headphones for Every Budget
In terms of processing, as well as the built-in Acoustic Engine, you can opt for Dolby Digital Live and DTS Connect ... Higher bitrates allow for improved signal-to-noise and dynamic range.

Best USB sound cards for gaming 2021
However, there□s no individual log-in, so unless you live alone the ... creating an acoustic experience that is more defined and immersive. The AI processing ensures that dialogue is clear ...

Designed to follow an introductory text on psychoacoustics, this book takes readers through the mathematics of signal processing from its beginnings in the Fourier transform to advanced topics in modulation, dispersion relations, minimum phase systems, sampled data, and nonlinear distortion. While organised like an introductory engineering text on signals, the examples and exercises come from research on the perception of sound. A unique feature of this book is its consistent application of the Fourier transform, which unifies topics as diverse as cochlear filtering and digital recording. More than 250 exercises are included, many of them devoted to practical research in perception, while others explore surprising auditory illusions generated by special signals. Periodic signals, aperiodic signals, and noise -- along with their linear and nonlinear transformations -- are covered in detail. More advanced mathematical topics are treated in the appendices. A working knowledge of elementary calculus is the only prerequisite. Indispensable for researchers and advanced students in the psychology of auditory perception.

The book presents selected papers from the Fifteenth International Conference on Intelligent Information Hiding and Multimedia Signal Processing, in conjunction with the Twelfth International Conference on Frontiers of Information Technology, Applications and Tools, held on July 18□20, 2019 in Jilin, China. Featuring the latest research, it provides valuable information on problem solving and applications for engineers in computer science-related fields, and is a valuable reference resource for academics, industry practitioners and students.

This book is primarily intended for the undergraduate students of electronics and communication engineering and audiology. The objective of the book is to give a hands-on experience in speech and audio signal processing, starting from the recording process to the much involved signal processing aspects. The book gives a minimal treatment for the theoretical aspects. More importance is given to the experimental method for understanding the subject by doing simple experiments using Octave/Matlab, universally accepted platforms for signal processing.KEY FEATURES □ Brief theoretical description fosters ability to understand the process of human speech production and perception. □ Illustrative examples give hands-on experience in application development. □ Exercises and problems develop skills on problem solving and assessment of level of understanding.

The comprehensive research activity around the World in the fields of Underwater Acoustics and Signal Processing being strongly supported by new experimental technique and equipment and by the parallel fast developments in computer technology and solid state devices, which has led to a rapidly reducing cost of digital processing thus enabling more complex processing to be carried out economically, emphasize how necessary it is at intervals of a few years through a NATO Advanced Study Institute (NATO ASI) and guided by leading experts to study the conquests in the fields of Underwater Acoustics and Signal Processing. This need of study is moreover stressed by the interdisciplina rity of Underwater Acoustics and Signal Processing, where a strong impact from other branches of science, - Geophysics, Radioastronomy, Bioengineering, Telecommunication, Seismology, Space Research etc. - is taking place, which makes it an extre mely difficult task for scientists to follow-up the development in all its phases and to preserve the general view of its rapid ly increasing number of possibilities. The present Proceedings of the NATO ASI held in Copenhagen during August 1980 join the series of proceedings of NATO summer schools on Underwater Acoustics and Signal Processing held during the past 20 years. The equality and the fusion of the individual research fields of Underwater Acoustics and Signal Processing and the separate introduction of advanced research results from other scientific areas related to underwater acoustics such as transducers characterize the subject matter of this NATO ASI.

This discussion of sonar signal processing bridges a number of related fields, including acoustic propagation in the medium, detection and estimation theory, filter theory, digital filtering, sensor array processing, spectral analysis, fast transforms and digital signal processing. The book begins with a discussion of the topics of analogue signalling conditioning, digital filtering, and the calculation of the discrete Fourier transform. Other topics discussed include analogue filters and analogue-to-digital conversion, finite impulse and infinite impulse response digital filters, and multirate processing techniques.

This will be a comprehensive, multi-contributed reference work that will detail the latest research and developments in biomedical signal processing related to big data medical analysis. It will describe signal processing, machine learning, and parallel computing strategies to revolutionize the world of medical analytics and diagnosis as presented by world class researchers and experts in this important field. The chapters will desribe tools that can be used by biomedical and clinical practitioners as well as industry professionals. It will give signal processing researchers a glimpse into the issues faced with Big Medical Data.

Underwater Acoustic Modeling and Simulation, Fourth Edition continues to provide the most authoritative overview of currently available propagation, noise, reverberation, and sonar-performance models.

This fourth edition of a bestseller discusses the fundamental processes involved in simulating the performance of underwater acoustic systems and emphasizes the importance of applying the proper modeling resources to simulate the behavior of sound in virtual ocean environments. New to the Fourth Edition Extensive new material that addresses recent advances in inverse techniques and marine-mammal protection Problem sets in each chapter Updated and expanded inventories of available models Designed for readers with an understanding of underwater acoustics but who are unfamiliar with the various aspects of modeling, the book includes sufficient mathematical derivations to demonstrate model formulations and provides guidelines for selecting and using the models. Examples of each type of model illustrate model formulations, model assumptions, and algorithm efficiency. Simulation case studies are also included to demonstrate practical applications. Providing a thorough source of information on modeling resources, this book examines the translation of our physical understanding of sound in the sea into mathematical models that simulate acoustic propagation, noise, and reverberation in the ocean. The text shows how these models are used to predict and diagnose the performance of complex sonar systems operating in the undersea environment.

In this book, application-related studies for acoustic biomedical sensors are covered in depth. The book features an array of different biomedical signals, including acoustic biomedical signals as well as the thermal biomedical signals, magnetic biomedical signals, and optical biomedical signals to support healthcare. It employs signal processing approaches, such as filtering, Fourier transform, spectral estimation, and wavelet transform. The book presents applications of acoustic biomedical sensors and bio-signal processing for prediction, detection, and monitoring of some diseases from the phonocardiogram (PCG) signal analysis. Several challenges and future perspectives related to the acoustic sensors applications are highlighted. This book supports the engineers, researchers, designers, and physicians in several interdisciplinary domains that support healthcare.