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Passive acoustic monitoring is increasingly used by the scientific ... explicit description and examples of the use of the programme MatLab clarify the processing underlying PAM. Second, detailed ...

Passive Acoustic Monitoring of Cetaceans

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MATLAB® and Simulink®

Sparkers can be used for the production of acoustic pulses as seismic ... measured in a basin in the laboratory using different arrangements of the capacitive energy storage and salinity of the water.

Research Article Multi-Tip Sparker for the Generation of Acoustic Pulses

e.g using Matlab programs etc. Having a general background knowledge on marine mammals as well as how to read and annotate academic journals was helpful. General Biology Simone Baumann-Pickering / ...

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MPL Summer Intern Research

Advanced ADC blending technology ensures that each instrument can function with optimal sensitivity from RF to acoustic frequencies ... and newsletters. How we use your information depends on ...

Liquid Instruments Introduces Moku:Pro - A High Performance, Software-Defined Instrumentation Platform for Engineers and Scientists

To increase data rate of... Design Optimization by Using Particle Swarm

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Optimization in Matlab and Apdl in Ansys ...

International Journal of Engineering Science and Technology (IJEST)

Since the end of the last decade, groups of researchers have worked to obtain the Boltzmann constant at unprecedented levels of certainty using new tech ... To find the Boltzmann constant, the team ...

Redefining the Kelvin

Piezoelectric transducers and ultrasonic transducers show unique performance in downhole and sonar applications, such as

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underwater locator beacons and underwater communication over long distances in ...

Wireless Downhole Communication, Hydro Acoustics, Underwater Communication with Advanced Piezoelectric Transducers

Estimate transport of bed material using the results of the active and passive tracer data. 4. Estimation of near-continuous bedload transport using acoustic data recorded ... will be post-processed ...

Upper Esopus Creek Tributary Bedload Pilot Study

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The study is done by using MATLAB, GTSTRUDL, and Mathcad software ... Current nondestructive testing/evaluation (NDT/E) methods including optical, acoustic/ultrasonic, thermal, magnetic/electrical, ...

Course Listing in Civil & Environmental Engineering

Aside from performing experiments in the creation of BECs, students will have hands-on experience in the following mini-projects: building an optical system for laser beam control; development of ...

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Physics and Engineering Research Areas

Develop differential equation models of multiphysics dynamic systems exploiting methods from analytical mechanics Create simulations of dynamic systems to achieve specified accuracy requirements using ...

Dynamic Systems—Graduate Certificate

We explored the use of optogenetics to deliver spatially restricted and ... In normal hearing animals, light stimulation cued avoidance behavior that could be reproduced by subsequent acoustic ...

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Optogenetic stimulation of cochlear neurons activates the auditory pathway and restores auditory-driven behavior in deaf adult gerbils

The spectral conversion from time domain to frequency domain is illustrated from a phenomenological perspective using examples and dynamic signal analyzer illustrations. The concepts of vibration and ...

MECH.5190 Engineering Spectral Analysis (Formerly 22.519)

In particular, with the vast amounts of time-

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synchronized phasor (synchrophasor) data that utilities are collecting in real-time, there are tremendous opportunities to use signal processing ...

College of Engineering and Applied Science

This option requires a minimum of 30 credits be earned through coursework. Use of limited number research credits in partial fulfillment of the requirements for a coursework degree may be allowed in ...

2019-2020 Incoming Students

The exponential growth of digitalization, or

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the use of digital technologies to provide ... including distributed acoustic strain ("DAS"), or temperature-sensing fiber(s) installed permanently ...

Monetizing Permian basin well data to optimize infill completions

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