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Active Mode Detection With Enhanced Pyroelectric Sensitivity

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incorporate active multispectral detection and are capable of providing greatly enhanced imaging performance using very low-cost fabrication techniques. Our MEMS-less pyroelectric sensor employs an active detection mechanism based on a strontium bismuth tantalate (SBT) ferroelectric sensing material.

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Active Mode Detection with Enhanced Pyroelectric Sensitivity
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Active Mode Detection With Enhanced Pyroelectric Sensitivity
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Active mode detection with enhanced pyroelectric sensitivity

Unglaub, Ricardo; Pawlak, Andrzej 2009-05-01 00:00:00

ABSTRACT A MEMS-less infrared pyroelectric sensor that employs an active detection mechanism based on a strontium bismuth tantalate ($\text{SrBi}_2\text{Ta}_2\text{O}_9$) ferroelectric sensing material is described and compared to passive modes of operation. A model is based on fundamental performance of ferroelectrics in which the polarization state of the material is actively interrogated enabling ...

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Active mode detection with enhanced pyroelectric ...

In this paper, we proposed an enhanced semi-supervised community detection method with active node and link selection, SK-rank-D. This framework consists of three main components: active central node and link selection, node clustering, and active

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boundary node and link selection.

Enhanced semi-supervised community detection with active ...
Sijtsma and J. Zillmann, “ In-duct and far-field mode detection techniques, ” in 13th AIAA/CEAS Aeroacoustics Conference, AIAA Paper 2007-3439 (2007). shows a comparison of the in-duct and far-field mode detection results ($m = 10$) at Mach number of 0.6 and frequency of 5600 Hz. Due to a long propagation distance, the detected spinning mode in the far-field becomes feeble and less ...

Compressive sensing method with enhanced sparsity for ...
Dual-Active Detection with enhanced PAgP Port aggregation protocol (PAgP) is a Cisco proprietary protocol used for managing EtherChannels. If a StackWise Virtual MEC terminates on a Cisco

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switch, you can run PAgP protocol on the MEC.

High Availability Configuration Guide, Cisco IOS XE Fuji ...
Enhanced Session Mode is on by default in Client Hyper-V, so you should not need to do anything. To verify it, right-click on the local system in Hyper-V Manager and click Hyper-V Settings . Verify that both of the indicated locations in the screenshot below are enabled.

Enhanced Session Mode in Client Hyper-V

Herein, a novel colorimetric/SERS dual-mode detection of Hg 2+ was proposed by using the SERS-active peroxidase-like Au@AgPt NPs. The Au@AgPt NP has hexoctahedral Au nanoparticle core with edges coating by Pt, which shows good SERS activity of Au

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and enhanced catalyst activity of Pt for designing colorimetric/SERS dual-mode probes.

Colorimetric/SERS dual-mode detection of mercury ion via ...

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Cisco VSS Dual-Active Detection - NetCraftsmen

Enhanced PAgP dual-active detection is enabled by default, but specific MEC groups must be specified as trustworthy. The specific CLI identifying MEC group as a trusted member is required under virtual switch configuration.

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Campus 3.0 Virtual Switching System Design Guide ...

Technology: Enhanced SIM Box Detection with Stealth Mode.

Scope: Detection of highly advanced SIM Box fraudsters. Our customer is an operator in Europe and has been using SIGOS ' SIM Box Detection services since October 2012. Virtual number testing gave excellent results until May 2017.

Detecting Advanced Fraudsters via Enhanced SIM Box ...

Hello, I plan to use Enhanced PAgP for dual-active detection for a VSS consisting of 6880-X. Has anybody tested it? What about the 6800IA switch - does it have a similar feature that can help the active switch in the VSS to find out if the former standby has become also active? Thanks, kind regards...

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6880-X VSS dual-active detection with E... - Cisco Community
Enhanced pyroelectric sensitivity using ferroelectric active mode detection Article in Applied Physics Letters 90(11):113503-113503-3
· March 2007 with 20 Reads How we measure 'reads'

This book presents theoretical and practical findings on the state estimation, diagnosis and control of complex systems, especially in the mathematical form of descriptor systems. The research is fully motivated by real-world applications (i.e., Barcelona 's water distribution network), which require control systems capable of taking into account their specific features and the limits of operations in the presence of uncertainties stemming from modeling

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errors and component malfunctions. Accordingly, the book first introduces a complete set-based framework for explicitly describing the effects of uncertainties in the descriptor systems discussed. In turn, this set-based framework is used for state estimation and diagnosis. The book also presents a number of application results on economic model predictive control from actual water distribution networks and smart grids. Moreover, the book introduces a fault-tolerant control strategy based on virtual actuators and sensors for such systems in the descriptor form.

Antennas are used across a wide range of frequencies in the electromagnetic spectrum to concentrate wave energy into electronic circuits. The principles that govern the operation of conventional radio-frequency antennas can be extended to much

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higher frequencies and be applied to produce nano-metallic (i.e. plasmonic) antennas that act as "receivers" and "transmitters" for visible light. These traits make them excellent candidates for light trapping in solar cells, light concentration in sub-wavelength photodetectors, or even localized heating for cancer therapies. The unique optical properties of metals at visible frequencies make it difficult to apply traditional antenna design rules. Using full-field electromagnetic simulations and analytical antenna models, we developed new design rules for producing optical antennas with a desired set of optical properties. We then applied these design rules to create antennas that resonantly enhance absorption on thin silicon detectors as well as enhance emission of cathodoluminescence (CL). Through spatial and spectral mapping of both photocurrent and CL we clearly show the fundamental and

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higher-order resonant modes of these antennas. With CL we are also able to map the spatial distribution of these resonant modes with nanometer resolution. In addition to these specific demonstrated applications, the results of this work enable optical engineers to more easily design a myriad of plasmonic devices that employ optical antenna structures, including nanoscale photodetectors, light sources, sensors, and modulators.

A number of applications including scientific spectroscopy, security screening, and medical imaging have benefitted from the development and utilization of new and emerging terahertz (THz) generation and detection techniques. Exploring recent discoveries and the advancements of biological behaviors through THz spectroscopy and imaging and the development of THz medical

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techniques, Terahertz Biomedical Science and Technology contains contributions from scientists and researchers in the terahertz biomedical field and is exclusively dedicated to new and emerging terahertz biomedical research and applications. This text offers an assessment of terahertz technology, and provides a compilation of fundamental biological studies conducted using terahertz waves. It introduces THz electromagnetic waves as a new tool for convergent studies, includes laser-based generation techniques and solid-state devices, contains a number of detectors, and discusses high-field generation methods. The material covers recent advancements in terahertz imaging for medical applications—most specifically in cancer diagnosis—reviewing the current status of the THz imaging technique for diagnosing cancers, and exploring the potential medical applications of THz radiation. It also considers the

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development of future medical applications using terahertz technology. Summarizes the recent progress made in THz waveguides, which are absolutely essential in the development of THz endoscopes Describes the dynamic imaging of drug absorption in skin, exploiting the sensitivity of THz waves to pharmaceutical materials Explores the principle and applications of THz molecular imaging techniques using nanoparticle probes Scientists and engineers involved in biological research and medical applications using optical techniques, as well as graduate students and instructors in optics, physics, electrical engineering, biology, chemistry, and medicine can benefit from this text which highlights new and emerging biomedical studies utilizing novel THz wave techniques.

The work in this thesis was a part of the experiment of squeezed

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light injection into the LIGO interferometer. The work first discusses the detailed design of the squeezed light source which would be used for the experiment. The specific design is the doubly-resonant, traveling-wave bow-tie cavity squeezed light source with a new modified coherent sideband locking technique. The thesis describes the properties affecting the squeezing magnitudes and offers solutions which improve the gain. The first part also includes the detailed modeling of the back-scattering noise of a traveling Optical Parametric Oscillator (OPO). In the second part, the thesis discusses the LIGO Squeezed Light Injection Experiment, undertaken to test squeezed light injection into a 4km interferometric gravitational wave detector. The results show the first ever measurement of squeezing enhancement in a full-scale suspended gravitational wave interferometer with Fabry-Perot arms.

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Further, it showed that the presence of a squeezed-light source added no additional noise in the low frequency band. The result was the best sensitivity achieved by any gravitational wave detector. The thesis is very well organized with the adequate theoretical background including basics of Quantum Optics, Quantum noise pertaining to gravitational wave detectors in various configurations, along with extensive referencing necessary for the experimental set-up. For any non-experimental scientist, this introduction is a very useful and enjoyable reading. The author is the winner of the 2013 GWIC Theses Prize.

“ Microsystems and Nanotechnology ” presents the latest science and engineering research and achievements in the fields of microsystems and nanotechnology, bringing together contributions

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by authoritative experts from the United States, Germany, Great Britain, Japan and China to discuss the latest advances in microelectromechanical systems (MEMS) technology and micro/nanotechnology. The book is divided into five parts – the fundamentals of microsystems and nanotechnology, microsystems technology, nanotechnology, application issues, and the developments and prospects – and is a valuable reference for students, teachers and engineers working with the involved technologies. Professor Zhaoying Zhou is a professor at the Department of Precision Instruments & Mechanology, Tsinghua University, and the Chairman of the MEMS & NEMS Society of China. Dr. Zhonglin Wang is the Director of the Center for Nanostructure Characterization, Georgia Tech, USA. Dr. Liwei Lin is a Professor at the Department of Mechanical Engineering,

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University of California at Berkeley, USA.

This book presents the proceedings of SICCC 2017, a conference devoted to promoting the dissemination of the different methodologies, techniques, theories, strategies, technologies and best practices on the prevention and mitigation of CBRNE risks. As the first scientific international conference on safety & security issues in the CBRNE field, SICCC 2017 attracted contributions resulting from fruitful inter-professional collaborations between university and military experts, specialized operators, decision makers and the industry. As such, these proceedings are primarily intended for academics and professionals from public, private and military entities. It is the first trans-disciplinary collection of scientific papers from the numerous fields related to CBRNE.

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New analytical strategies and techniques are necessary to meet requirements of modern technologies and new materials. In this sense, this book provides a thorough review of current analytical approaches, industrial practices, and strategies in Fourier transform application.

A guide to computer networks cover such topics as hubs and switches, VLANs, trunking, routing and routers, tunnels, redundancy, Cisco Nexus, T1, and firewalls.

This new edition of Infrared and Terahertz Detectors provides a comprehensive overview of infrared and terahertz detector technology, from fundamental science to materials and fabrication

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techniques. It contains a complete overhaul of the contents including several new chapters and a new section on terahertz detectors and systems. It includes a new tutorial introduction to technical aspects that are fundamental for basic understanding. The other dedicated sections focus on thermal detectors, photon detectors, and focal plane arrays.

2014 BMA Medical Book Awards Highly Commended in Radiology category! Image-Guided Interventions, a title in the Expert Radiology Series, brings you in-depth and advanced guidance on all of today ' s imaging and procedural techniques. Whether you are a seasoned interventionalist or trainee, this single-volume medical reference book offers the up-to-the-minute therapeutic methods necessary to help you formulate the best

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treatment strategies for your patients. The combined knowledge of radiology experts from around the globe provides a broad range of treatment options and perspectives, equipping you to avoid complications and put today's best approaches to work in your practice. "... the authors and editors have succeeded in providing a book that is both useful, instructive and practical" Reviewed by RAD Magazine, March 2015 Formulate the best treatment plans for your patients with step-by-step instructions on important therapeutic radiology techniques, as well as discussions on equipment, contrast agents, pharmacologic agents, antiplatelet agents, and protocols. Make effective clinical decisions with the help of detailed protocols, classic signs, algorithms, and SIR guidelines. Make optimal use of the latest interventional radiology techniques with new chapters covering ablation involving microwave and

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irreversible electroporation; aortic endografts with fenestrated grafts and branch fenestrations; thoracic endografting (TEVAR); catheter-based cancer therapies involving drug-eluting beads; sacroiliac joint injections; bipedal lymphangiography; pediatric gastrostomy and gastrojejunostomy; and peripartum hemorrhage. Know what to look for and how to proceed with the aid of over 2,650 state-of-the-art images demonstrating interventional procedures, in addition to full-color illustrations emphasizing key anatomical structures and landmarks. Quickly reference the information you need through a functional organization highlighting indications and contraindications for interventional procedures, as well as tables listing the materials and instruments required for each. Access the fully searchable contents, online-only material, and all of the images online at Expert Consult.

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