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NMR-Based Liquid Explosives Detector

Using magnetic field gradient, the self-diffusion coefficient D can be extracted as well. Additionally, the amplitude of the NMR signal carries information about the proton density in the sample. Relatively few groups have investigated possibilities of using NMR techniques to construct a liquid explosives ...

Ultra-low Field MRI for the Detection of Liquid Explosives ...

Keywords - Nuclear magnetic resonance, NMR, low-field NMR, SQUID, security, explosive detection I INTRODUCTION Nuclear magnetic resonance (NMR) and magnetic resonance imaging (MRI) are ...

Analysis of Common Explosives in Different Solvents by ...

published papers concerning the full analysis of explosives using this technique [5-12] The use of superconducting magnets in NMR spectrometers allowed the sensitivity of detection for important diagnostic nuclei to be increased Modern NMR spectrometers, operating at high magnetic ...

Explosives Detection with Nuclear Quadrupole Resonance

explosives using thermal-neutron analysis—has proved to have inadequate sensitivity and specificity Detection through NQR does not face these difficulties To understand why not, it is helpful to review ...

Detection of High Explosives Using Reflection Absorption ...

detection and quantification of unknown samples Standards were prepared using a previously developed sample “smearing method” [8, 9] Stainless steel metal sheets (SS type 316, non-magnetic...

NMR & MW Techniques for Detection of Explosive and Illicit ...

Explosives Detection using Magnetic and Nuclear Resonance Techniques, NATO Science for Peace and Security Series B: Physics and Biophysics, T Apih, B Rameev, G Mozhukhin, and J Barras,

for the Detection of Explosives

Abstract: Trace detection of explosives has been an ongoing challenge for decades and has become one of several critical problems in defense science; public safety; and global counter-terrorism As a

SOLID STATE GAS SENSORS FOR DETECTION OF EXPLOSIVES ...

The increased number of terrorist attacks using improvised explosive devices (IEDs) over the past few years has made the trace detection of explosives a priority for the Department of Homeland Security Considerable advances in early detection of trace explosives employing spectroscopic detection ...

WIRELESS SENSOR NETWORKS FOR METROPOLITAN SCALE ...

of detection The y-axis indicates the density of detection, the higher (and lower since the Difference Quotient is calculated using difference equation and results could be in minus) the dots the closer to sensor the car is That is, the exact time of detection ...

Detecting and locating electronic devices using their ...

explosives-detection capability [4] Sensors that are capable of detecting explosives from outside of their effective range are an important, emerging area of research This search strategy is commonly referred to as stand-off detection These sensors must cope with the low signal-to-noise ratio (SNR) which is inherent to long-range detection

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Sep 03, 2020 explosives detection using magnetic and nuclear resonance techniques nato science for peace and security series b physics and biophysics Posted By Erskine CaldwellMedia TEXT ID 3136e3f7a Online PDF Ebook Epub Library Magnetic Resonance Detection Of Explosives ...

APPLIED GEOPHYSICS AND THE DETECTION OF BURIED ...

measure the weaker secondary magnetic field caused by a buried munition superimposed on the much larger natural geomagnetic background Some magnetometers use two magnetic sensors configured to measure the slope (difference over a fixed distance) of the magnetic field, rather than the absolute magnetic ...

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Explosives, Narcotics, and Personnel Detection Using Dogs

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Improving the design of atomic magnetometer arrays for RF ...

detection of particular explosives; the associated resonant frequencies are virtually unique This speci city is spoiled by natural and anthropogenic interference that can swamp the NQR signal Fortunately, the spatial magnetic ...

Feasibility of Nuclear Quadrupole Resonance as a technique ...

¹⁴N magnetic resonance for materials detection in the field Solid State Nucl Magn Reson 24(1):123-136 [5]Miller JB, Barrall GA 2005 Jan-Feb Explosives Detection with Nuclear Quadrupole Resonance American Scientist 93: 50-57 [6] Rudakov TN 2008 Detection of explosives ...