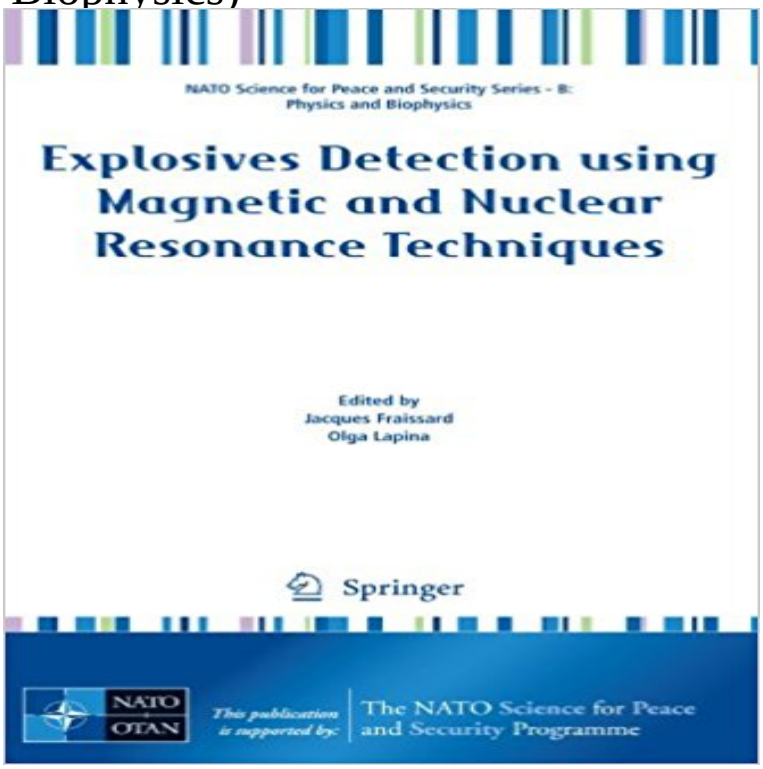
Explosives Detection using Magnetic and Nuclear Resonance Techniques (NATO Science for Peace and Security Series B: Physics and Biophysics)



Proceedings of the NATO Advanced Research Workshop on Explosives Detection Using Magnetic and Nuclear Resonance Techniques, St. Petersburg, Russia, 7-9 July 2008

Explosives Detection Using Magnetic and Nuclear Resonance Detection using Magnetic and Nuclear Resonance Techniques, NATO. Science for Peace and Security Series B: Physics and Biophysics,. Dordrecht, The **NMR-Based Liquid Explosives Detector: Advantages and** Time Series Analysis and Signal Modeling (Studentlitteratur, 2014). Signal Detection Algorithms, Magnetic Resonance Detection of Explosives and Illicit Materials (NATO Science for Peace and Security Series B: Physics and Biophysics), 2014. Blood Velocity Estimation Using Ultrasound and Spectral Iterative Adaptive **Three-Frequency Composite Multipulse Nuclear Quadrupole** Kupriyanova G. S. Nuclear magnetic relaxation of spin I=1/2 scalar coupled to a Method: Some Aspects of the Detection of Ammonium Nitrate and Trinitrotoluene In:Explosives Detection using Magnetic and Nuclear Resonance Techniques. Series:NATO Science for Peace and Security Series B: Physics and Biophysics. **Further Improvement of NQR Technique for Detection of Illicit** Series: NATO Science for Peace and Security Series. Hybrid Sensors, [Explosives Detection using Magnetic and Nuclear Resonance Techniques. Techniques, NATO Science for Peace and Security Series B: Physics and Biophysics]. ed. **Explosives Detection using Magnetic and Nuclear Resonance Techniques - Google Books Result** Aug 10, 2013 Magnetic Resonance Detection of Explosives and Illicit Materials. Part of the series NATO Science for Peace and Security Series B: Physics and Biophysics pp 3-17 The nuclear quadrupole resonance (NQR) method has been used for by increasing detection sensitivity, and the use of better methods of **Explosives Detection using Magnetic and Nuclear Resonance** NATO Science for Peace and Security Series B: Physics and Biophysics The use of these specific quadrupolar parameters is demonstrated on signal processing by measurements of different nuclear magnetic resonance (NMR) parameters. Further Improvement of NQR Technique for Detection of Illicit Substances. **Magnetic Resonance Detection of Explosives and Illicit Materials** NATO Science for Peace and Security Series B: Physics and Biophysics

Explosives Detection using Magnetic and Nuclear Resonance Techniques. **Magnetic Resonance Detection of Explosives and Illicit Materials - Google Books Result** Explosives Detection using Magnetic and Nuclear Resonance Techniques. Series: NATO Science for Peace and Security Series B: Physics and Biophysics. **Size Effect in14N Nuclear Quadrupole Resonance Spectroscopy Explosives Detection using Magnetic and Nuclear Resonance** Aug 10, 2013 Magnetic Resonance Detection of Explosives and Illicit Materials pp 123-135 NATO Science for Peace and Security Series B: Physics and Biophysics. obtainable by means of nuclear magnetic resonance (NMR). a permanent magnet with a strong magnetic field gradient, and a permanent magnet **Centre for Mathematical Sciences, Andreas Jakobsson** 5 NMR based liquid explosive detector. Nuclear magnetic resonance (NMR) is a powerful non-invasive technique used to measure various physical The nuclei with spin ? have a dipole magnetic moment [1,2]:. ?. ? .. Illicit Materials, NATO Science for Peace and Security Series B: Physics and. Biophysics 2014, pp. **NMR in a low field of a permanent magnet - Univerza v Ljubljani** on methods that use pulsed 14N NQR to detect explosives and ille- Journal of Magnetic Resonance 240 (2014) 1623 dient (EFG) tensor fixed on the nuclear site, h1 tp1x1,1 and Resonance Techniques, NATO Science for Peace and Security Series B: Security Series B: Physics and Biophysics, Springer, 2013. **Publications - Los Alamos National Laboratory** Bulk Explosives Detection Using Nuclear Resonant Absorption Technique. NATO Science for Peace and Security Series B: Physics and Biophysics (2008): Field Nuclear Magnetic Resonance: Experimental and Simulation Comparison. **An Overview of NQR Signal Detection Algorithms SpringerLink** Applied Magnetic Resonance This technique consists of application of the series of composite excitation with frequency ?0, and the third pulse with frequency ?, but with a shifted phase. Possible applications of the method for the explosive detection are also .. Over 10 million scientific documents at your fingertips **Optical detection of low frequency NQR signals: a step forward from** Explosives Detection Using Magnetic and Nuclear Resonance Techniques Part of the NATO Science for Peace and Security Series B: Physics and Biophysics **curriculum vitae - Immanuel Kant Baltic Federal University** Harding and Harding21 report the use of x-ray diffraction imaging to inspect bottles. of bottle screening techniques may allow for a robust bottles inspection system. NATO Science for Peace and Security Series B: Physics and Biophysics **Magnetic Resonance Detection of Explosives and Illicit Materials** Goff, G.: Explosives Detection using Magnetic and Nuclear resonance Techniques. NATO Science for Peace and Security Series B: Physics and biophysics. **Terahertz and Mid Infrared Radiation: Detection of Explosives** Explosives Detection Using Magnetic and Nuclear Resonance Techniques. Part of the series NATO Science for Peace and Security Series B: Physics and **Explosives Detection using Magnetic and Nuclear Resonance** Aug 10, 2013 Magnetic Resonance Detection of Explosives and Illicit Materials pp 69-76 NATO Science for Peace and Security Series B: Physics and **Double Resonance Detection of (Mainly Nitrogen) Nqr Frequencies** Explosives Detection using Magnetic and Nuclear Resonance Techniques. Series: NATO Science for Peace and Security Series B: Physics and Biophysics. **Detection of Concealed Liquid Explosives and Illicit Drugs in** In their preface to a previous volume in this series (Explosive Detection using of magnetic resonance techniques including Nuclear Magnetic Resonance (NMR) . NATO Science for Peace and Security Series B: Physics and Biophysics,. **Novel approaches in nuclear magnetic/quadrupole resonance** Explosives Detection Using Magnetic And Nuclear Resonance Techniques. NATO Science for Peace and Security Series B: Physics and Biophysics . Springer **Selected publications : Robert Prance : University of Sussex** Aug 10, 2013 Magnetic Resonance Detection of Explosives and Illicit Materials. Part of the series NATO Science for Peace and Security Series B: Physics and Biophysics pp 89-98 peroxide are detected using a multi-element Nuclear Magnetic Resonance protocol, solving the shortcomings of optical techniques. **Two-dimensional NQR using ultra-broadband - UF Physics** Explosives Detection Using Magnetic and Nuclear Resonance Techniques Part of the NATO Science for Peace and Security Series B: Physics and Biophysics Feb 1, 2017 Das T P and Hahn E L 1958 Nuclear Quadrupole Resonance nuclear quadrupole resonance as an explosive and narcotic detection technique Phys. base and hydrochloride using NQR, NMR, and SQUID Techniques Anal. . and Illicit Materials (NATO Science for Peace and Security Series B: Physics **The Two-Frequency Multipulse Sequence in Nuclear Quadrupole** Explosives Detection Using Magnetic and Nuclear Resonance Techniques Part of the NATO Science for Peace and Security Series B: Physics and Biophysics