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Detection of Liquid Explosives and Flammable Agents in Connection with Terrorism

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Detection Of Liquid Explosives And Flammable Agents In Connection With Terrorism Nato Science For Peace And Security Series B Physics And Biophysics

**Ira Helsloot, Arjen Boin, Brian
Jacobs, Louise K. Comfort**



Detection Of Liquid Explosives And Flammable Agents In Connection With Terrorism Nato Science For Peace And Security Series B Physics And Biophysics:

Detection of Liquid Explosives and Flammable Agents in Connection with Terrorism Hiltmar Schubert, Andrey Kuznetsov, 2008-05-21 The organization of an Advanced Research Workshop with the title Detection and Disposal of Liquid Explosives and Flammable Agents in Connection with Terrorism was motivated by international findings about activities in this field of application This ARW followed a meeting about the Detection of Disposal Improvised Explosives St Petersburg 2005 Both items show the logistic problems as one of the lessons terrorists have to overcome These problems are connected with the illegal supply and transport of explosives and fuels and as counter measure the detection of these materials The invention of liquid explosives goes back to the middle of the 19th century and was used for special purposes in the commercial field of application Because of the high sensitivity of liquid explosives against mechanical shock caused by adiabatic compression of air bobbles producing hot spots as origin of initiation the commercial application was not very successful Because of this high risk liquid explosives are not used in military or commercial application with some exceptions In the commercial field explosives as slurries or emulsions consisting of suitable salts Ammoniumnitrate etc and water are used to a large extend because of their high insensitivity In many cases these slurries or emulsions were unfit for terrorist actions because of their low sensitivity large critical diameter and using in confinement In the military field liquid explosives are used in World War I and II as bomb fillings *Explosives Detection using Magnetic and Nuclear Resonance Techniques* Jacques Fraissard, Olga Lapina, 2009-07-06 Nuclear quadrupole resonance NQR a highly promising new technique for bulk explosives detection relatively inexpensive more compact than NMR but with considerable selectivity Since the NQR frequency is insensitive to long range variations in composition mixing explosives with other materials such as the plasticizers in plastic explosives makes no difference The NQR signal strength varies linearly with the amount of explosive and is independent of its distribution within the volume monitored NQR spots explosive types in configurations missed by the X ray imaging method But if NQR is so good why it is not used everywhere Its main limitation is the low signal to noise ratio particularly with the radio frequency interference that exists in a field environment NQR polarization being much weaker than that from an external magnetic field The distinctive signatures are there but are difficult to extract from the noise In addition the high selectivity is partly a disadvantage as it is hard to build a multichannel system necessary to cover a wide range of target substances Moreover substances fully screened by metallic enclosures etc are difficult to detect A workshop was held at St Petersburg in July 2008 in an attempt to solve these problems and make NQR the universal technique for the detection of bombs regardless of type This book presents the essentials of the papers given there MEGA-CRISES Ira Helsloot, Arjen Boin, Brian Jacobs, Louise K. Comfort, 2012-08-01 We live in turbulent times with continents and nations facing ever heightening risks such as natural disasters intense and protracted conflicts terrorism corporate crises cyber threats to

infrastructures and mega events We are witnessing the rise of mega crises and a new class of adversity with many unknowns The prospect of mega crises presents professionals and students in the field of crisis management with four major tasks First they should engage in deep thinking about the causes of the increasing occurrence of mega crises Second they should identify and work through the dominant trends which complicate contemporary crisis management Third they should upgrade institutional crisis management capacity Fourth they should improve societal resilience since no institutional complex can mitigate or manage these mega crisis on its own This book is divided into four primary parts each of which looks at one facet of mega crises Part I focuses on the concept of a mega crisis and mega crisis management Part II examines crisis management of mega natural disasters Part III evaluates crisis management of man made mega crises and Part IV identifies mega threats and vulnerabilities Additional major topics include Hurricane Katrina Hurricane Gustav the London Bombings the Mumbai Terrorist Attacks of July 7 2005 corporate meltdowns the subprime crisis the Olympic Games electricity grids global climate change the Dutch Delta risks to food security and mega crises and the Internet This comprehensive text will provide practitioners and academics with the results of an across the board research effort in the prospects nature characteristics and the effects of mega crises Mass Spectrometry Handbook Mike S. Lee, 2012-05-08

Due to its enormous sensitivity and ease of use mass spectrometry has grown into the analytical tool of choice in most industries and areas of research This unique reference provides an extensive library of methods used in mass spectrometry covering applications of mass spectrometry in fields as diverse as drug discovery environmental science forensic science clinical analysis polymers oil composition doping cellular research semiconductor ceramics metals and alloys and homeland security The book provides the reader with a protocol for the technique described including sampling methods and explains why to use a particular method and not others Essential for MS specialists working in industrial environmental and clinical fields **Explosives**

Detection Lorenzo Capineri, Eyüp Kuntay Turmuş, 2020-01-29 This volume presents selected contributions from the Advanced Research Workshop on Explosives Detection hosted by the Department of Information Engineering of the University of Florence Italy in 2018 The main goal of the workshop was to find out how Science for Peace and Security projects in the field of Explosives Detection contribute to the development and or refinement of scientific and technical knowledge and competencies The findings of the workshop presented in the last section of the book determine future actions and direction of the SPS Programme in the field of explosives detection and management The NATO Science for Peace and Security SPS Programme promotes dialogue and practical cooperation between NATO member states and partner nations based on scientific research technological innovation and knowledge exchange Several initiatives were launched in the field of explosive detection and clearance as part of NATO's enhanced role in the international fight against terrorism Experts and scientists from NATO members and partner countries have been brought together in multi year projects within the framework of the SPS Programme to cooperate in the scientific research in explosive detection field developing new

technologies and methods to be implemented in order to detect explosive substances in different contexts *Detection of Biological Agents for the Prevention of Bioterrorism* Joseph Banoub, 2010-12-14 The threat of biological and chemical terrorism has driven the demand for timely techniques that can quickly detect the agent or agents used in an attack The detection and or prevention of these potential security threats provide significant scientific and technical challenges due to the combination of possible agents and modes of delivery available This book will present a thorough look at the importance and technological challenges of mass spectrometry MS for the detection identification of biological and chemical threats This new contribution s general aims are to draw the attention of recognized practitioners experts and graduate students trying to grasp the latest MS developments in the cutting edge fields of MS biodefense technologies for the rapid early specific sensitive threat detection of pathogens viruses explosives mycotoxins chemical agents and biological markers of xenobiotic chemicals

Detection and Disposal of Improvised Explosives Hiltmar Schubert, Andrey Kuznetsov, 2006-01-02 These proceedings contain the presentations and results of several discussions of the workshop on Detection and Disposal of Improvised Explosives held in St Petersburg Russia September 7 9 2005 This Advanced Research Workshop was the fourth event concerning Detection of Explosives in connection with counter terrorism After the first three workshops dealing with vapor and trace detection electronic nose detection and detection of bulk explosives this workshop was devoted to the detection of Improvised Explosives including Methods of detection of Improvised Explosives IE Methods of detection of Improvised explosives devices IED Disposal and safe handling of ID and IED The treatment of detection methods may be divided in the following groups Overview about the different methods Trace and vapor detection Electromagnetic methods Neutron methods Laser techniques Because of different definitions of Improvised Explosives the participants of the workshop agreed after some discussions with the following definition An Improvised Explosive IE can be any chemical compound or mixture capable of an explosive reaction They are normally easily prepared by a knowledgeable layman under simple conditions Components of IE are typically inorganic salts containing molecular bound oxygen like nitrates chlorates or perchlorates etc or organic compounds with nitro nitami or nitrate groups or peroxides Admixtures of military or commercial explosive materials are also used From the chemical point of view IE can be divided into the following types Salts containing chemical groups with oxygen like nitrates chlorates or perchlorates etc in mixtures with combustible substances like carbon hydrogen compounds

Stand-off Detection of Suicide Bombers and Mobile Subjects Hiltmar Schubert, A. Rimski-Korsakov, 2006-10-04 These proceedings contain the presentations of a NATO Russian vanced Research Workshop ARW held at the Fraunhofer Institute for Chemical Technology ICT near Karlsruhe Germany attended also by most of the members of the Explosive Detection Working Group EDWG of the Advisory Panel on Security Related Civil Science and Technology The ARW approved by the NATO Science Committee is the fth NATO Workshop during the last 3 years dealing with the detection of explosives in connection with counter terrorism The special goal of this workshop was the exchange of

knowledge and experiences in the special field of Stand Off Detection and to x the State of the Art in this field of research At the end of the workshop proposals of Research Development were presented but not included in the proceedings which were evaluated by the present members of the EDWG during the following day of the workshop One of the first measures to counter the threat will be to stop the transport of illicit materials that means in our case to detect explosive charges before they are initiated by terrorists

Vapour and Trace Detection of Explosives for Anti-Terrorism Purposes M.

Krausa,2012-11-06 The fast detection of explosives from the vapor phase would be one way to enhance the protection of society against terrorist attacks Up to now the problem of detection of explosives especially the location of explosives whether at large areas e g station halls theaters or hidden in cars aircraft cargo baggage or explosives hidden in crowds e g suicide bombers or bombs in bags has not been solved Smelling of explosives like dogs do seems to be a valuable tool for a security chain In general different strategies can be adopted to the basic problem of explosive detection bulk detection vapor detection Normally meetings cover both aspects and applications of the detection Even though both methods might fulfill special aspects of a general security chain the underlying scientific questions differ strongly Because of that the discussions of the scientists and practitioners from the different main directions are sometimes only less specific Therefore the NATO Advisory Panel in Security Related Civil Science and Technology proposed a small series of NATO ARW s which focuses on the different scientific aspects of explosives detection methods This book is based on material presented at the first NATO ARW of this series in Moscow which covered the topic Vapor and trace detection of explosives The second ARW was held in St Petersburg and treated the topic Bulk detection methods The third workshop was held in Warwick and focused on electronic noses which cover a somewhat different aspect of vapor detection

Vapour and Trace Detection of Explosives for Anti-Terrorism Purposes M

Krausa,2004-10-18 Up to now so called sniffer dogs are the most successful and widespread systems for the explosives detection at airports and in public areas Dogs are able to detect explosives under various conditions On the other hand dogs are living beings and their behavior and skills are influenced by numerous parameters e g age sex trainer daily condition etc To overcome these problems concerning the detection of explosives and illicit substances by dogs chemical sensors seemed to be a valuable alternative for this application and therefore a valuable tool in counter terrorism The presented papers are an outcome of an NATO ARW which was held in Moscow and cover different aspects of vapour and trace detection of explosive Starting from different scenarios airport security inspection of large areas freight screening boarding passes etc and taking into account the capability of dogs the chances of and demands on chemical sensors are discussed in view of their possible application Several papers highlight the capability and possibilities of different methods and devices for the vapour detection of explosives drift MS high speed gas analyzers ion mobility increment spectrometer etc Information about the post explosion identification of explosives by LC MS and the development of explosive standards for dog training and sensor testing are presented also

Detection of Bulk Explosives Advanced

Techniques against Terrorism Hiltmar Schubert, Andrey Kuznetsov, 2012-12-06 Detection of Bulk Explosives Advanced Techniques against Terrorism contains reviews of existing and emerging bulk explosives detection techniques scientific and technical policy of the Federal Border Service of the Russian Federation challenges in application and evaluation of EDS systems for aviation security multi sensor approach to explosives detection There are also reports devoted to the following individual explosive detection techniques X ray systems in airports neutron in gamma out techniques neutron and gamma backscattering nuclear quadrupole resonance including remote NQR sub surface radars microwave scanners laser induced burst spectroscopy LIBS acoustic sensors nonlinear location NUD systems for localization and destruction of explosive objects

Unexploded Ordnance Detection and Mitigation James Byrnes, 2008-12-15 The chapters in this volume were presented at the July August 2008 NATO Advanced Study Institute on Unexploded Ordnance Detection and Mitigation The conference was held at the beautiful Il Ciocco resort near Lucca in the glorious Tuscany region of northern Italy For the ninth time we gathered at this idyllic spot to explore and extend the reciprocity between mathematics and engineering The dynamic interaction between world renowned scientists from the usually disparate communities of pure mathematicians and applied scientists which occurred at our eight previous ASI s continued at this meeting The detection and neutralization of unexploded ordnance UXO has been of major concern for very many decades at least since the First World war UXO continues to be the subject of intensive research in many elds of science incl ing mathematics signal processing mainly radar and sonar and chemistry While today s headlines emphasize the mayhem resulting from the placement of imp vised explosive devices IEDs humanitarian landmine clearing continues to draw signi cant global attention as well In many countries of the world landmines threaten the population and hinder reconstruction and fast ef cient utilization of large areas of the mined land in the aftermath of military con icts

Counterterrorist Detection Techniques of Explosives Avi Kagan, Jimmie C. Oxley, 2021-12-03 Counterterrorist Detection Techniques of Explosives Second Edition covers the most current techniques available for explosive detection This completely revised volume describes the most updated research findings that will be used in the next generation of explosives detection technologies New editors Drs Avi Cagan and Jimmie Oxley have assembled in one volume a series of detection technologies written by an expert group of scientists The book helps researchers to compare the advantages and disadvantages of all available methods in detecting explosives and in effect allows them to choose the correct instrumental screening technology according to the nature of the sample Covers bulk remote trace contact or contact less detection Describes techniques applicable to indoor public transportation human and freight and outdoor vehicle detection Reviews both current techniques and those in advanced stages of development Provides detailed descriptions of every technique including its principles of operation as well as its applications in the detection of explosives

Aspects of Explosives Detection Maurice Marshall, Jimmie C. Oxley, 2011-07-28 Detection and quantification of trace chemicals is a major thrust of analytical chemistry In recent years much effort has been spent developing detection

systems for priority pollutants Less mature are the detections of substances of interest to law enforcement and security personnel in particular explosives This volume will discuss the detection of these not only setting out the theoretical fundamentals but also emphasizing the remarkable developments in the last decade Terrorist events airplanes blown out of the sky PanAm 103 over Lockerbie and attacks on U S and European cities Trade Center in New York and the Murrah Federal Building in Oklahoma City railways in London and Madrid emphasize the danger of concealed explosives However since most explosives release little vapor it was not possible to detect them by technology used on most organic substances After PanAm 103 was downed over Scotland the U S Congress requested automatic explosive detection equipment be placed in airports This volume outlines the history of explosive detection research the developments along the way present day technologies and what we think the future holds Written by experts in the field who set out both the scientific issues and the practical context with authority Discusses and describes the threat Describes the theoretical background and practical applications of both trace and bulk explosives detection

Advances in Analysis and Detection of Explosives Jehuda Yinon, 2013-04-17 This book represents a collection of papers presented at the 4th International Symposium on Analysis and Detection of Explosives held at the Mitzpeh Rachel Kibbutz Guesthouse in Jerusalem September 7 to 10 1992 The Symposium was attended by 150 participants from 20 countries and 50 lectures were given including 4 invited keynote lectures The purpose of the Symposium as the previous Symposia was to present and to discuss new approaches new applications new methods and techniques in analysis and detection of explosives The Symposium was according to the feedback received from many participants very successful and met the anticipated expectations New collaborative initiatives between various laboratories from different countries were formed which is a necessity in our common goals of law enforcement aviation security and environmental quality issues which are closely related to the analysis of explosives I would like to extend my thanks to the Weizmann Institute of Science and the Israel National Police for sponsoring the Symposium to the contributing Institutions and Agencies for making this Symposium financially possible and to the members of the International Committee for helpful advice I am most thankful to my colleagues from the Organizing Committee especially Dr Joseph Almog and Dr Shmuel Zitrin from the Israel National Police for helping in the organization of this Symposium

Detection of Explosives for Commercial Aviation Security National Research Council, Division on Engineering and Physical Sciences, National Materials Advisory Board, Commission on Engineering and Technical Systems, Committee on Commercial Aviation Security, 1993-01-01 This book advises the Federal Aeronautics Administration FAA on the detection of small concealed explosives that a terrorist could plant surreptitiously on a commercial airplane The book identifies key issues for the FAA regarding explosive detection technology that can be implemented in airport terminals Recommendations are made in the areas of systems engineering testing and technology development

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