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PHYSICS AND BIOPHYSICS

# 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 Proceedings Of The

**M. Krausa**



## **Detection Of Liquid Explosives And Flammable Agents In Connection With Terrorism Proceedings Of The:**

*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

**Demystifying Explosives** Sethuramasharma Venugopalan, 2015-01-09 Demystifying Explosives Concepts in High Energy Materials explains the basic concepts of and the science behind the entire spectrum of high energy materials HEMs and gives a broad perspective about all types of HEMs and their interrelationships Demystifying Explosives covers topics ranging from explosives deflagration detonation and pyrotechnics to safety and security aspects of HEMS looking at their aspects particularly their inter relatedness with respect to properties and performance The book explains concepts related to the molecular structure of HEMs their properties performance parameters detonation and shock waves including explosives and propellants The theory based title also deals with important safety and security and interesting constructive applications aspects connected with HEMs and is of fundamental use to students in their introduction to these materials and applications Explains the concept of high energy materials in simple language and down to earth examples Worked examples and problems are given wherever required Demystifies the concept of explosives Limited use of big and complex equations Questions and Suggested Reading are given at the end of each chapter

*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 **Mass Spectrometry Handbook**

Mike S. Lee,2012-04-16 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 **Technology in Forensic Science**

Deepak Rawtani,Chaudhery Mustansar Hussain,2020-08-19 The book Technology in Forensic Science provides an integrated approach by reviewing the usage of modern forensic tools as well as the methods for interpretation of the results Starting with best practices on sample taking the book then reviews analytical methods such as high resolution microscopy and chromatography biometric approaches and advanced sensor technology as well as emerging technologies such as nanotechnology and taggant technology It concludes with an outlook to emerging methods such as AI based approaches to forensic investigations 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

**X-Ray Imaging** Harry E. Martz, Clint M. Logan, Daniel J. Schneberk, Peter J.

Shull, 2016-10-26 While books on the medical applications of x ray imaging exist there is not one currently available that focuses on industrial applications Full of color images that show clear spectrometry and rich with applications X Ray Imaging fills the need for a comprehensive work on modern industrial x ray imaging It reviews the fundamental science of x ray imaging and addresses equipment and system configuration Useful to a broad range of radiation imaging practitioners the book looks at the rapid development and deployment of digital x ray imaging system *Application of Accelerators in*

*Research and Industry* Floyd D. McDaniel, Barney L. Doyle, 2009-04-03 All papers have been peer reviewed The conference brings together scientists and physicians from universities national laboratories research institutes and industry worldwide who use particle accelerators in their research medical and industrial applications The topics presented at the conference included accelerator technology and applications atomic nuclear physics national and homeland security ion beam analysis modifications medical applications radioisotopes radiation effects teaching with accelerators nano scale fabrication focused ion beams and PIXE **Airport and Aviation Security** Bartholomew Elias, 2009-09-14 The response of the U S federal

government to the events of September 11 2001 has reflected the challenge of striking a balance between implementing security measures to deter terrorist attacks while at the same time limiting disruption to air commerce Airport and Aviation Security U S Policy and Strategy in the Age of Global Terrorism is a co An Act to Combat International Terrorism United States. Congress. Senate. Committee on Governmental Affairs, 1978 Traveling Abroad Post "9-11" & in the Wake of

Terrorism Gladson I. Nwanna, 2004 This practical guide for Americans and other international travelers addresses matters of safety health shopping and driving abroad and incorporates recent guidelines and changes in air travel including airport rules and procedures Index to the Code of Federal Regulations, 1996 The Federal Index, 1978 Airports

International, 1990 **Bulletin of the Atomic Scientists**, 1981-03 Supplements to the National Fire Codes, 2008 A compilation of NFPA codes standards recommended practices and manuals amended or adopted by NFPA at the annual meeting *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

*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 Advanced 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 fifth 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 examine 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, 2004-10-18 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

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