



# Detection of Explosives and Landmines

Methods and Field Experience

Edited by

Hiltmar Schubert and Andrey Kuznetsov

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# Detection Of Explosives And Landmines Methods And Field Experiences Proceedings Of The Nato Advanced

**Yan Bai**



## **Detection Of Explosives And Landmines Methods And Field Experiences Proceedings Of The Nato Advanced:**

*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 quadruple 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 of Explosives and Landmines** Hiltmar Schubert, Andrey Kuznetsov, 2012-12-06 This ARW is the third NATO sponsored workshop on Explosives Detection and Humanitarian Demining The previous events were Detection and Destruction of Anti Personnel Landmines Moscow 1997 Explosives Detection and Decontamination of the Environment Prague 1997 Over the last decade applied research in Humanitarian Demining has made progress to some extent but according to the tremendous tasks of Demining and the lack of scientific methods for practical detection of explosive devices research activities are still of the same importance than ever before Concerning countermeasures against terrorism the detection of explosives is one of the key factors but the practical applications are not sufficient solved An international exchange of research results are therefore urgent to find out the most promising measures for application The coincidence of this ARW and the terrible disaster of New York and Washington may demonstrate the importance of this task In consequence the explosive device detection technologies can make a major contribution to collective family and individual security In developed countries these technologies provide a strong deterrent and preventative measure against terrorist threats In less developed regions they can improve individual institutional and state security lessening the insecurity that motivates many terrorists acts The elimination of landmine threats is just one of many ways of achieving this However our attempts to meet the extremely difficult technical challenges posed by landmine and UXO contamination are inevitably leading us to new technological approaches

**Counterterrorist Detection Techniques of Explosives** Jehuda Yinon, 2011-10-13 The detection of hidden explosives has become an issue of utmost importance in recent years While terrorism is not new to the international community recent terrorist attacks have raised the issue of detection of explosives and have generated a great demand for rapid sensitive and reliable methods for detecting hidden explosives Counterterrorist Detection Techniques of Explosives covers recent advances in this area of research including vapor and trace detection techniques chemiluminescence mass spectrometry ion mobility spectrometry electrochemical methods and micromechanical sensors such as microcantilevers and bulk detection techniques neutron techniques nuclear quadrupole resonance x ray diffraction imaging millimeter wave imaging terahertz imaging and laser techniques This book will be of

interest to any scientists involved in the design and application of security screening technologies including new sensors and detecting devices which will prevent the smuggling of bombs and explosives Covers latest advances in vapor and trace detection techniques and bulk detection techniques Reviews both current techniques and those in advanced stages of development Techniques that are described in detail including its principles of operation as well as its applications in the detection of explosives

*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

*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

**Non-intrusive**

**Inspection Technologies** George Vourvopoulos, F. Patrick Doty, 2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature. *Index of Conference Proceedings* British Library. Document Supply Centre, 2002. **Bulletin of the Atomic Scientists**, 1983-06. **Chemical Abstracts**, *Scientific and Technical Aerospace Reports*, 1974. **Bulletin of the Atomic Scientists**, 1970-06. The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world. Government Reports Announcements & Index, 1994-02. **Bulletin of the Atomic Scientists**, 1983-06. *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. **Anti-personnel Landmine Detection for Humanitarian Demining** Katsuhisa Furuta, Jun Ishikawa, 2009-01-24. Anti-personnel Landmine Detection for Humanitarian Demining reports on state-of-the-art technologies developed during a Japanese National Research Project 2002-2007. The conventional method of landmine detection is using metal detectors to sense the metal in mines, but often other metal fragments in minefields camouflage landmines and hinder progress using this form of demining. The challenge is to develop detection systems that can discriminate between AP landmines and random metal fragments. The JST adopted research proposals and the results are reported here. This book concentrates on aspects of three approaches to AP mine detection: enhancing and confirming the results of metal detection scans using GPR; using robot vehicles and manipulators to operate within minefields remotely; and methods of sensing the explosives within mines. Results are presented in the fields of GPR, nuclear quadrupole resonance, neutron thermal analysis and biosensors. The integration of these methods for a workable robot

operation is demonstrated The project was carried out in conjunction with mine action centers in Croatia Cambodia and Afghanistan Evaluation data from field trials are also given

*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

**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 fields of science including mathematics signal processing mainly radar and sonar and chemistry While today s headlines emphasize the mayhem resulting from the placement of improvised explosive devices IEDs humanitarian landmine clearing continues to draw significant global attention as well In many countries of the world landmines threaten the population and hinder reconstruction and fast efficient utilization of large areas of the mined land in the aftermath of military conflicts

*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 hold 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

**Trace Chemical Sensing of Explosives** Ronald L. Woodfin, 2006-12-15 This timely book covers the most recent developments in the chemical detection of explosives in a variety of environments Beginning with a broad view of the need for and the potential applications of chemical sensing the book considers the issue of how to effectively include chemical sensing into systems designed to find hidden explosives devices Offering a firsthand look at the latest technologies direct from those who are actively developing them the book features A look at the history of the field including the contributions of recent programs A brief explanation of the chemistry of various explosives and differences in the place where they may be detected An introduction to the problems presented by trace element sensing An overview and comparison of the technologies currently being used and developed Case studies of field experiences with chemical sensors A look at the emerging threat of non traditional explosives This book is an important reference for explosives engineers systems engineers involved in the development of related devices government agencies and NGOs involved in demining efforts military and law enforcement specialists in mines and explosive ordinance disposal EOD as well as environmental scientists and chemists involved in explosives research In addition to providing field workers with knowledge that will help them decide where and how to search for explosives using chemical sensors It will provide them with an understanding of the potential and the limitations of chemical sensing in their search for and identification of dangerous devices

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