

Modern Methods and Applications in Analysis of Explosives

**Jehuda Yinon
and Shmuel Zitrin**



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Modern Methods And Applications In Analysis Of Explosives

Arthur L. E. Barron



Modern Methods And Applications In Analysis Of Explosives:

Modern Methods and Applications in Analysis of Explosives Jehuda Yinon, Shmuel Zitrin, 1996-08-06 An up to date handbook with the latest advances including all the various methods and techniques for analyzing explosives Explosive compounds and mixtures residues their recovery and clean up procedures chromatography polarography spectroscopy environmental analysis and mass spectroscopy are among the topics covered **Explosives** Rudolf Meyer, Josef Köhler, Axel Homburg, 2007-09-04 This world famous work has been enlarged and updated without tampering with its tried and tested format Around 500 alphabetically ordered monographic entries consider the physicochemical properties production methods and safe applications of over 120 explosive chemicals while discussing 70 fuels additives and oxidizing agents and describing the relevant test methods The extensive thermodynamic data has been thoroughly updated and now also provided on a CD ROM compiled by the Fraunhofer Institute of Chemical Technology This excerpt from the ICT Thermodynamical Database not only includes additional thermodynamic data and references to further reading but also features enhanced search facilities Other key features include a 1 500 entry combined index and glossary with terms and abbreviations in English French and German conversion tables and numerous literature references A handy reference for explosive experts and also for translators public authorities and patent lawyers From reviews of previous editions This wealth of information and an index that comprises some 1500 keywords and several conversion tables make this a unique source of knowledge for anybody working with explosives Propellants Explosives Pyrotechnics Forensic Investigation of Clandestine Laboratories Donnell R. Christian, Jr., 2022-06-20 Forensic Investigation of Clandestine Laboratories Second Edition is fully updated to address all aspects of the forensic investigation of clandestine laboratories While the first edition focused on the domestic clandestine manufacture of contraband substances this edition expands the scope to more fully address the clandestine manufacture of explosives that have become a threat that is global in nature In clandestine laboratory operations equipment is often simple household chemical products are utilized and the education of the operators basic In fact most of the time these elements individually are perfectly legal to sell and possess However the combination of all these elements is what becomes the scene of illicit activity and a criminal operation In response to the increase in use of homemade explosive mixtures by terrorists both domestically and internationally the section clandestine manufacture of explosives is greatly enhanced Topics are presented in a manner which while detailed will not compromise the tactics techniques or procedures utilized by law enforcement and military personnel in their ability to combat the clandestine manufacture of contraband substances and the battle against domestic and international terrorism Key features Examines tell tale signs to look for in recognizing a clandestine lab Outlines how to safely process the site of a clandestine lab Details how to analyze collected evidence in the examination laboratory Provides guidelines as to what to derive from the physical evidence Offers specific tactics to effectively present the opinions associated with evidence that has been collected during the investigation in a written report

military style briefing or to a jury in a legal proceeding Forensic Investigation of Clandestine Laboratories Second Edition guides the reader through the process of recognizing these illegal manufacturing operations Then it examines the methods as to how to compile the volume of associated evidence into a package that can be presented in a court of law or to military commanders for decisive action It is an invaluable resource that will prove useful to chemistry lab technicians forensic investigators fire and first responder professionals military personnel police investigative agencies and narcotics units and lawyer trying cases involving clandestine labs

A Handbook on Modern Explosives Manuel Eissler, 1897

Forensic and Environmental Detection of Explosives Jehuda Yinon, 1999-09-09 Forensic and Environmental Detection of Explosives is the first comprehensive book on the detection of explosives It combines the two main fields of application Forensic detection of explosives the detection of hidden explosives in airfreight luggage vehicles and on suspects Environmental detection of explosives detecting on site explosives in soil and water of contaminated areas and the detection of landmines Dr Jehuda Yinon is a world renowned expert on the analysis of explosives and has served as consulting expert during the Oklahoma bombing trial where his previous book Modern Methods and Applications in Analysis of Explosives was quoted by both the prosecution and defense experts This new book complements the author's previous book on the analysis of explosives It includes the following features Classifications of explosives Explanations of the basic terms related to the detection of explosives Vapor detection methods Probing radiation methods Tagging of explosives Systems integration and performance testing Detection of explosives in contaminated areas Detection of landmines This book is an ideal reference book for those working in forensic and law enforcement agencies concerned with the detection of hidden explosives as well as for environmental scientists dealing with explosives decontamination The book is also recommended as a text book for graduate students in analytical environmental and forensic science

Aspects of Explosives Detection Maurice Marshall, Jimmie C. Oxley, 2008-11-20 Terrorism and the threat from terrorist bombs are major problems of the modern era The threat has driven major efforts to develop and implement new and improved explosives detectors The contributors discuss explosives detection in detail covering both theoretical fundamentals and practical applications The historical background established technologies current developments and future prospects are all addressed

BOOK JACKET

Forensic Science Handbook Richard Saferstein, 2002 The second in a three volume series this popular and widely circulated professional handbook describes the theories and practices of today's criminalistics and covers a wide range of subject areas relevant to the services rendered by crime laboratories and related facilities Presents authoritative reviews from recognized forensic criminologists and forensic scientists well versed in their chosen areas of expertise Considers a specific examination technique for a wide range of evidence prevalent in the modern crime laboratory e.g. DNA hair paint soil glass petroleum products explosives alcohol in blood and breath and questioned documents Describes the theory operation and forensic utilization of such modern analytical instruments as mass spectrometry capillary electrophoresis high

performance liquid chromatography and the visible microspectrophotometer Emphasizes the symbiotic relationship between forensic science and criminal law as it examines the role and conduct of the expert witness rules of evidence and the legal requirements governing the admissibility of scientifically evaluated evidence For professionals in forensic science and criminology *Journal of Chromatography*, 2002 *The Encyclopedia of Mass Spectrometry* Michael L. Gross, Richard M. Caprioli, 2003 **Forensic Science Review**, 2001 **Modern Practice of Gas Chromatography** Robert Lee Grob, 1995-07-21 This revised and updated edition includes new chapters on gas chromatography mass spectrometry GC MS optimizing separations using GC forensic GC applications and GC injection systems There is also expanded coverage of instrumentation **Environmental Monitoring and Remediation III** Tuan Vo-Dinh, 2004 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 **Trace Chemical Sensing of Explosives** Ronald L. Woodfin, 2007 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 **The Microscope** Arthur L. E. Barron, 1999 Vol 3 adds section The Entomological monthly *Journal of the Indian Chemical Society* Indian Chemical Society, 2008 **Chemical Engineer**, 1993 Differentiation of Smokeless Powders Using Fourier Transform Infrared Spectrophotometry and Morphology Melissa Dawn Felton, 1999 **Encyclopedia of Analytical Science** Alan Townshend, 1995 V 1 A Che v 2 Chi Fla v 3 Flow Gas v 4 Gast Lip v 5 Liq Micros v 6 M icrow Pha v 7 Pha Rut v 8 Sam Sur v 9 Swe Z v 10 Index directories and appendices **Advances in Fluorescence Sensing Technology**, 1995 *Separation and Quantitation of Nitrated Explosives Using*

Thin-layer Chromatography and Charge-coupled Device Camera Imaging Melissa Sue Meaney, 2007

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