

Second Edition

A large, billowing, white and yellow nuclear cloud, resembling a mushroom cloud, dominates the upper half of the cover. It is set against a dark blue background that transitions into a lighter blue at the top.

NUCLEAR FORENSIC ANALYSIS

Kenton J. Moody • Patrick M. Grant
Ian D. Hutcheon



CRC Press
Taylor & Francis Group

Nuclear Forensic Analysis

Scott C. Dulebohn



Nuclear Forensic Analysis:

Nuclear Forensic Analysis Kenton J. Moody, Patrick M. Grant, Ian D. Hutcheon, 2005-02-28 This book provides a primary reference source for nuclear forensic science including the vastly disciplinary nature of the overall endeavor for questioned weapons of mass destruction specimens Nothing like this exists even in the classified material For the first time the fundamental principles of radioforensic analysis all pertinent protocols and procedures computer modeling development interpretational insights and attribution considerations are consolidated into one convenient source The principles and techniques so developed are then demonstrated and discussed in their applications to real world investigations and casework conducted over the past several years *Nuclear Forensic Analysis, Second Edition* Kenton J. Moody, Patrick M. Grant, Ian D. Hutcheon, 2014-12-10 Now in its second edition Nuclear Forensic Analysis provides a multidisciplinary reference for forensic scientists analytical and nuclear chemists and nuclear physicists in one convenient source The authors focus particularly on the chemical physical and nuclear aspects associated with the production or interrogation of a radioactive sample They consolidate fundamental principles of nuclear forensic analysis all pertinent protocols and procedures computer modeling development interpretational insights and attribution considerations The principles and techniques detailed are then demonstrated and discussed in their applications to real world investigations and casework conducted over the past several years Highlights of the Second Edition include A new section on sample analysis considerations and interpretation following a post detonation nuclear forensic collection New case studies including the most wide ranging and multidisciplinary nuclear forensic investigation conducted by Lawrence Livermore National Laboratory to date Expanded treatments of radiologic dispersal devices RDDs and statistical analysis methodologies The material is presented with minimal mathematical formality using consistent terminology with limited jargon making it a reliable accessible reference The broad based coverage provides important insight into the multifaceted changes facing this recently developed science

The New Nuclear Forensics Vitaly Fedchenko, 2015 Nuclear material changes its form and properties as it moves through the nuclear fuel cycle from one facility to another Each step of the fuel cycle or each use of the material will inevitably leave its mark The science of determining the history of a sample of nuclear material through the study of these characteristics is known as nuclear forensics While nuclear forensic analysis has normally been associated with investigations and prosecutions in the context of trafficking of nuclear materials or nuclear terrorism it had wider applications in national security contexts such as nuclear non proliferation disarmament and arms control The New Nuclear Forensics is the first book to give a definitive guide to this broader definition of nuclear forensic analysis This book describes the various methods used in nuclear forensics giving first a broad introduction to the process followed by details of relevant measurement techniques and procedures In each case the advantages and limitations are outlined To put these methods in context the book also recounts the history of the discipline and describes the diverse contemporary applications of nuclear forensics

Nuclear Forensic Analysis Kenton J. Moody, Patrick M. Grant, Ian D. Hutcheon, 2014-12-10 Now in its second edition *Nuclear Forensic Analysis* provides a multidisciplinary reference for forensic scientists analytical and nuclear chemists and nuclear physicists in one convenient source The authors focus particularly on the chemical physical and nuclear aspects associated with the production or interrogation of a radioactive sample **NUCLEAR FORENSICS ANALYSIS CENTER FORENSIC ANALYSIS TO DATA INTERPRETATION.** ,2011 The Nuclear Forensics Analysis Center NFAC is part of Savannah River National Laboratory SRNL and is one of only two USG National Laboratories accredited to perform nuclear forensic analyses to the requirements of ISO 17025 SRNL NFAC is capable of analyzing nuclear and radiological samples from bulk material to ultra trace samples NFAC provides analytical support to the FBI's Radiological Evidence Examination Facility REEF which is located within SRNL REEF gives the FBI the capability to perform traditional forensics on material that is radiological and or is contaminated SRNL is engaged in research and development efforts to improve the USG technical nuclear forensics capabilities Research includes improving predictive signatures and developing a database containing comparative samples *Application of Nuclear Forensics in Combating Illicit Trafficking of Nuclear and Other Radioactive Material* International Atomic Energy Agency, 2013-06-30 This publication presents the outcome of an IAEA coordinated research project CRP which served as a technical forum for sharing international experiences in the field of nuclear forensics with a focus on improved procedures and techniques optimization of nuclear forensic analysis preservation of evidence and provision of support to Member States The CRP results address both technical needs to develop the discipline of nuclear forensics as well as to promote confidence in the application of analytical methods and understanding of the nuclear fuel cycle applied to nuclear forensics Topics include instrumentation and field work for evidence collection novel laboratory methods supporting a nuclear forensic examination and modeling for interpretation of nuclear forensic results

Handbook of Radioactivity Analysis Michael F. L'Annunziata, 2012-08-16 Authoritative reference providing the principles practical techniques and procedures for the accurate measurement of radioactivity [Nuclear Forensics Support](#) International Atomic Energy Agency, 2006 Illicit trafficking of nuclear and other radioactive material has been an issue of concern since the first seizures in the early 1990s By the end of 2004 IAEA member states had confirmed 540 cases with another 500 unconfirmed This publication sets out information on the use of nuclear forensic investigation methods in incidents involving nuclear and other radioactive material Issues covered include definitions of key terms the Nuclear Forensics Plan of Action incident response laboratory sampling and distribution nuclear forensic analysis traditional methods of forensic analysis nuclear forensic interpretation and the procedures involved in requesting assistance from the IAEA

The U.S. National Nuclear Forensics Library, Nuclear Materials Information Program, and Data Dictionary ,2011 Nuclear forensics assessments to determine material process history requires careful comparison of sample data to both measured and modeled nuclear material characteristics Developing centralized databases or nuclear forensics libraries

to house this information is an important step to ensure all relevant data will be available for comparison during a nuclear forensics analysis and help expedite the assessment of material history. The approach most widely accepted by the international community at this time is the implementation of National Nuclear Forensics libraries which would be developed and maintained by individual nations. This is an attractive alternative to an international database since it provides an understanding that each country has data on materials produced and stored within their borders but eliminates the need to reveal any proprietary or sensitive information to other nations. To support the concept of National Nuclear Forensics libraries, the United States Department of Energy has developed a model library based on a data dictionary or set of parameters designed to capture all nuclear forensic relevant information about a nuclear material. Specifically, information includes material identification, collection background, and current location; analytical laboratories where measurements were made; material packaging and container descriptions; physical characteristics including mass and dimensions; chemical and isotopic characteristics; particle morphology; or metallurgical properties; process history including facilities and measurement quality assurance information. While not necessarily required, it may also be valuable to store modeled data sets including reactor burn up or enrichment cascade data for comparison. It is fully expected that only a subset of this information is available or relevant to many materials, and much of the data populating a National Nuclear Forensics library would be process analytical or material accountability measurement data as opposed to a complete forensic analysis of each material in the library.

Educational Programme in Nuclear Security International Atomic Energy Agency, 2010. Higher education plays an essential role in nuclear security capacity building. It ensures the availability of experts able to provide the necessary competencies for effective national nuclear security oversight of nuclear and other radioactive material and to establish and maintain an appropriate nuclear regime in a State. This guide presents both the theoretical knowledge and the practical skills necessary to meet the requirements described in the international framework for nuclear security. Emphasis is placed on the implementation of these requirements and recommendations in States. On the basis of this guide, a university should be able to develop its own academic programme tailored to suit State specific educational needs in the area of nuclear security and to meet national requirements.

Forensic Analytical Methods Thiago R L C Paixão, Wendell K T Coltro, Maiara Oliveira Salles, 2019-08-16. Forensic analysis relates to the development of analytical methods from laboratory applications to in field and in situ applications to resolve criminal cases. There has been a rapid expansion in the past few years in this area which has led to an increase in the output of literature. This is the first book that brings together the understanding of the analytical techniques and how these influence the outcome of a forensic investigation. Starting with a brief introduction of the chemical analysis for forensic application, some forensic sampling and sample preparation, the book then describes techniques used in forensic chemical sensing in order to solve crimes. The techniques describe current forensic science practices in analytical chemistry and specifically the development of portable detectors to guide the

authorities in the field The book provides an excellent combination of current issues in forensic analytical methods for the graduates and professionals It will cover the essential principles for students and directly relate the techniques to applications in real situations *The Oxford Handbook of Nuclear Security*, 2024-07-12 The Oxford Handbook of Nuclear Security provides a comprehensive examination of efforts to secure sensitive nuclear assets and mitigate the risk of nuclear terrorism and other non state actor threats It aims to provide the reader with a holistic understanding of nuclear security through exploring its legal political and technical dimensions at the international national and organizational levels Recognizing there is no one size fits all approach to nuclear security the book explores fundamental elements and concepts in practice through a number of case studies which showcase how and why national and organizational approaches have diverged Although focused on critiquing past and current activities unexplored yet crucial aspects of nuclear security are also considered and how gaps in international efforts might be filled Contributors to the handbook are drawn from a variety of different disciplinary backgrounds and experiences to provide a wide range of perspectives on nuclear security issues and move beyond the Western narratives that have tended to dominate the debate These include scholars from both developed and developing nuclear countries as well as practitioners working in the field of nuclear security in an effort to bridge the gap between theory and practice

Establishing a Nuclear Forensic Capability: Application of Analytical Techniques International Atomic Energy Agency, 2023-06-15 Nuclear forensics supports national nuclear security measures and criminal investigations by providing information on the identity origin and history of nuclear or other radioactive material found out of regulatory control This publication provides information for States on the use of nuclear forensics in response to criminal or other unauthorized acts involving nuclear or other radioactive material based on the guidance provided in IAEA Nuclear Security Series No 2 G Rev 1 Nuclear Forensics in Support of Investigations It is intended for technical and non technical personnel responsible for developing nuclear forensic analytical capabilities within the context of a broader national nuclear forensic programme stemming from national legislation It provides technical information that describes the application of specific methods analytical techniques and technical expertise used for nuclear forensic analysis in support of investigations of criminal or other unauthorized acts involving nuclear or other radioactive material Defence Against Weapons of Mass Destruction Terrorism NATO Advanced Research Workshop on Defence Against Weapons of Mass Destruction Terrorism, 2009-06-26 In Defence Against Weapons of Mass Destruction Terrorism the editors examined the class of Weapons of Mass Destruction WMD for terrorist use and have found that their effects range from serious nuisance value up to catastrophic destruction of a large urban area There are some differences in the effects depending on whether they are used against military or civilian targets whether they are used from inside the target area or outside and between those weapons for which MOPP Mission Oriented Protective Posture gear can provide useful protection Biological Weapons Chemical Weapons and those for which it often cannot radiation nuclear explosions These are useful ways to begin thinking

about establishing protocols for protecting our armed forces and the civilian population they are sworn to defend

Handbook of Metrology and Applications Dinesh K. Aswal, Sanjay Yadav, Toshiyuki Takatsuji, Prem Rachakonda, Harish Kumar, 2023-08-23 This handbook provides comprehensive and up to date information on the topic of scientific industrial and legal metrology It discusses the state of art review of various metrological aspects pertaining to redefinition of SI Units and their implications applications of time and frequency metrology certified reference materials industrial metrology industry 4 0 metrology in additive manufacturing digital transformations in metrology soft metrology and cyber security optics in metrology nano metrology metrology for advanced communication environmental metrology metrology in biomedical engineering legal metrology and global trade ionizing radiation metrology advanced techniques in evaluation of measurement uncertainty etc The book has contributed chapters from world s leading metrologists and experts on the diversified metrological theme The internationally recognized team of editors adopt a consistent and systematic approach and writing style including ample cross reference among topics offering readers a user friendly knowledgebase greater than the sum of its parts perfect for frequent consultation Moreover the content of this volume is highly interdisciplinary in nature with insights from not only metrology but also mechanical material science optics physics chemistry biomedical and more This handbook is ideal for academic and professional readers in the traditional and emerging areas of metrology and related fields

Environmental Radiochemical Analysis VII Nicholas Evans, 2023-12-08 Incidents such as nuclear weapon tests accidents in nuclear power plants transport accidents and accidental or authorised discharges from nuclear facilities have introduced anthropogenic radionuclides into the environment Scientists need accurate analysis of these radionuclides in order to estimate the risk to the public from released radioactivity This book is an authoritative up to date collection from leading scientists across the globe on environmental radiochemistry and radioecology nuclear industry decommissioning radiation detection and imaging medical imaging radioanalytical techniques and nuclear forensics The research contributions were first presented at the 14th International Symposium on Nuclear and Environmental Radiochemical Analysis in September 2022 Providing a key reference for graduates and professionals who work across fields involving analytical chemistry radiochemistry environmental science and technology and waste disposal this book is essential reading to aid risk analysis and protection

Department of Homeland Security Appropriations for 2014 United States. Congress. House. Committee on Appropriations. Subcommittee on Homeland Security, 2013

Verifying Treaty Compliance Rudolf Avenhaus, Nicholas Kyriakopoulos, Michel Richard, Gotthard Stein, 2007-04-21 International treaties requiring binding commitments on the part of the member states and appropriate compliance verification by an international authority constitute a primary assurance against risks posed by the spread of sensitive technologies that can be used to produce weapons of mass destruction or risks posed by climate changes due to global human activities This book presents in an interdisciplinary manner experts analyses and views of existing verification systems It gives guidelines and advice for the

improvement of those systems as well as for new challenges in the field *Encyclopedia of Spectroscopy and Spectrometry*
,2010-04-09 The Second Edition of the Encyclopedia of Spectroscopy and Spectrometry pulls key information into a single source for quick access to answers and or in depth examination of topics SPEC 2 covers theory methods and applications for researchers students and professionals combining proven techniques and new insights for comprehensive coverage of the field The content is available in print and online via ScienceDirect the latter of which offers optimal flexibility accessibility and usability through anytime anywhere access for multiple users and superior search functionality No other work gives analytical and physical bio chemists such unprecedented access to the literature With 30% new content SPEC 2 maintains the authoritative balanced coverage of the original work while also breaking new ground in spectroscopic research Incorporates more than 150 color figures 5 000 references and 300 articles 30% of which are new for a thorough examination of the field Highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health Features a new co editor David Koppenaal of Pacific Northwest National Laboratory Washington USA whose work in atomic mass spectrometry has been recognized internationally **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

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