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The ISOCS (In Situ Object Counting System) Calibration Software brings a new level of capabilities to gamma sample assay by eliminating the need for traditional calibration sources during the efficiency calibration process. View Product. InSpector[®] 2000. DSP Portable Spectroscopy Workstation.

In-Situ Measurements for Radiation Contaminated Materials ...

In Situ Gamma Spectroscopy with ISOCS, an In Situ Object Counting System Application Note from Canberra Industries Strategic Alliance for Environmental Restoration, CP-5 Large Scale Demonstration Project, Data Report for ISOCS

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Radiation Imaging System, at CP-5

[PDF] In-situ Object Counting System. | Semantic Scholar

The In Situ Object Counting System (ISOCS) is a Germanium based gamma-ray spectroscopy system with a built in shielding code that identifies radioactive isotopes and quantitatively assays the radioactive contents of containers, surfaces, and samples. The system is able to simultaneously collect data while performing report calculations real time.

In-Situ Object Counting System - D&D KM-IT
In Situ Gamma Spectroscopy with ISOCS□, an In Situ

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Object Counting System. Typical ISOCS Applications. With its “go anywhere, count anything” detector and shield, battery powered electronics, and unique calibration software, ISOCS can be used in a wide variety of in situ assay applications.

In Situ Gamma Spectroscopy with ISOCS, an In Situ Object ...

In-Situ Object Counting System Benefits. A major benefit is that ISOCS can provide rapid, real time information on the type of isotopes, and the...

Limitations. Comments. Pictures.

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In situ object counting system (ISOCS) technique: A cost-effective tool for NDA verification in IAEA Safeguards. Abstract: Nuclear material measurements using the ISOCS technique are playing an increasing role in IAEA verification activities. The ISOCS capabilities include: a high sensitivity to the presence of U and Pu; the ability to detect very small amounts of material; and the ability to measure items of different shapes and sizes.

In situ object counting system (ISOCS) technique: A cost ...

Validation of in situ object counting system (ISOCS) mathematical efficiency calibration software 1.

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Introduction. In environmental and other in situ measurement applications, the objects to be assayed are, frequently, ... 2. Efficiency validation tests. The validation tests were grouped into three ...

Validation of in situ object counting system (ISOCS ... In Situ Object Counting System (ISOCS) as Applied to Scan Requirements in Support of Final Status Survey at HBPP. Enclosure 5 PG&E Letter HBL-13-008 In Situ Object Counting System (ISOCS) as Applied to Scan Requirements in Support of Final Status Survey at HBPP September 26, 2012. Pacific Gas and Electric Company'.

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In Situ Object Counting System (ISOCS) as Applied to Scan ...

Canberra Model ISOXSHLD ISOCS (In Situ Object Counting System) Shield for Spectroscopy. Condition is used. This system comes with all accessories, software, cables as seen in pictures. Units have been used previously and show signs of cosmetic wear, minor scratches/scuffs but overall condition is good. Please see all photos for more details.

Canberra ISOXSHLD ISOCS (In Situ Object Counting System) ...

Monitors designed to screen large objects and waste for radioactive contamination. ... In Situ tools for

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imaging and measurement of contaminated materials and areas, both in place as well as after removal from facilities. ... Suitability for higher count rates - the MILCC system can count drums that have been rejected by other systems that have ...

MILCC □ Systems Mobile ISOCS □ Large Container Counter

Mirion - ISOXSHLD - In Situ Object Counting Shield System (ISOCS) by Mirion Technologies, Inc. This ISOCS (In Situ Object Counting System) Shield has been designed as the optimum in convenience and functionality for in situ gamma spectroscopy wi...
Mirion - ISOXSHLD - Decontamination &

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Decommissioning- Gamma ...

Mirion - ISOXSHLD - Decontamination & Decommissioning ...

It is In Situ Object Counting System. In Situ Object Counting System listed as ISOCS In Situ Object Counting System - How is In Situ Object Counting System abbreviated?

In Situ Object Counting System - How is In Situ Object ...

The ISOCS (In Situ Object Counting System) Calibration Software, which is a part and the heart of the ISOCS-concept, brings a new level of capabilities

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to gamma sample assay by eliminating the need for traditional calibration sources during the efficiency calibration process.

In Situ Object Counting Systems (ISOCS) »
Gammadata ...

The in-situ object counting system (ISOCS) is being used to assess more than 320 drums, boxes and other objects at INL's Advanced Mixed Waste Treatment Project (AMWTP) that are not amenable to other non-destructive assay equipment owing to their shape or configuration.

New technology allows in-situ waste characterisation

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In situ (/ In [ˈsɪtju], - [ˈsaɪtju], - [ˈsi] -/; often not italicized in English) is a Latin phrase that translates literally to "on site" or "in position." It can mean "locally", "on site", "on the premises", or "in place" to describe where an event takes place and is used in many different contexts.

In situ - Wikipedia

In Situ Object Counting Systems (ISOCS) The ISOCS (In Situ Object Counting System) Calibration Software, which is a part and the heart of the ISOCS-concept, brings a new level of capabilities to gamma sample assay by eliminating the need for... [Read More](#)

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In-Situ » Gammadata - Improving science

The ISOCS (in situ object counting system) simulation based on the HASL-258 (HASL, 1972; Venkataraman et al., 1999) and environmental radiation survey (ERS) program (Ji et al., 2019a) were used to calculate the in situ calibration and dose conversion factor of several spectrometers, such as HPGe, NaI (TI), and LaBr 3 (Ce) detectors, at a given geometry of the detector position and vertical distribution of radionuclides.

Performance of in situ gamma-ray spectrometry in the

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CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): Waste containers at Brookhaven National Laboratory (BNL) were characterized onsite using an In-Situ Object Counting System (ISOCS) for shipment to a processing facility for ultimate disposal. The waste had been collected from BNL operations over several years with a wide variety of radionuclide contaminants.

The baseline approach to characterize underwater objects is to use radiation sensors on an extendable

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pole or the Remote Underwater Characterization System to detect gamma radiation and to collect samples for laboratory analysis to determine concentrations of specific radionuclides. The In-Situ Underwater Gamma Spectroscopy (ISUGS) System is essentially a submersible In-Situ Object Counting System from Canberra that can determine both the total gamma radiation and quantify the specific radionuclides contributing to the radiation. ISUGS was demonstrated to characterize objects in the canal of the Materials Test Reactor in INEEL's Test Reactor Area. Cost analysis based on demonstration data revealed that ISUGS reduced costs by 80% for characterization of ten objects compared to the

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baseline approach. Frammatome provides ISUGS as part of its characterization services. Based on these promising results, INEEL and other DOE sites plan to use ISUGS to characterize their reactor fuel pools.

Private landowners or Federal Agencies responsible for cleaning up radiological environments are faced with the challenge of clearly defining the nature and extent of radiological contamination, implementing remedial alternatives, then statistically verifying that cleanup objectives have been met. Sampling and Surveying Radiological Environments pr

Originally published in 1994, the first edition of Field

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Sampling Methods for Remedial Investigations soon became a premier resource in the field. The “Princeton Groundwater” course designated it as one of the top books on the market that address strategies for groundwater well installation, well completion, and groundwater sampling. This long-awaited second edition continues the tradition of providing guidance on how to develop cost-effective and defensible environmental sampling programs to support site characterization, site remediation, and building decontamination and decommissioning in both chemical and radioactive environments. The book provides guidance on how to: Implement the US EPA's latest Data Quality Objective's procedure

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Prepare and maintain defensible field documentation
Use quality control sampling, data verification, data validation, and data quality assessment to assure the data collected is of adequate quality and quantity for its intended use
Properly decontaminate drilling and field sampling equipment
Determine appropriate health and safety requirements
Manage investigation-derived waste
Properly prepare sample bottles for shipment

Decommissioning Health Physics presents many of the technical issues and challenges that arise during the planning and implementation of decommissioning and decontamination (D&D) projects. The focus is on

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the final status survey performed during the later stages of decommissioning projects. It expands upon and provides greater technical detail than

The Natural Radiation Environment Symposium (NRE VII), the Seventh in the NRE series, which commenced forty years ago in 1963 at Rice University Texas, was held in Rhodes (Greece) in May 2002. During the intervening four decades the research work presented at these NRE Symposia has contributed to a deeper

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understanding of natural radiation and in particular of its contribution to human radiation exposures. It is clear from the quality and diversity of the 143 papers in this volume of Radioactivity in the Environment series that the study of the natural radiation environment is an active and continually expanding field of research. The papers in this volume fall into a number of main and topical research areas namely: the measurement and behaviour of natural radionuclides in the environment cosmic radiation measurement and dosimetry the external penetrating radiation field at ground level TENR (Technologically Enhanced Natural Radiation) and NORM (Naturally Occurring Radioactive Materials) studies assessment

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of the health effects of radon regulatory aspects of natural radiation exposures In these papers the results of many new surveys of natural radionuclide levels in the environment and of improved methods of detection are described. While some of the natural radiation sources investigated are unmodified by human activity, many accounts are given here of exposures to natural sources which have been enhanced by technology. Such TENR and NORM exposures are shown to range from activities such as mining, oil and gas exploitation, the use of industrial by-products as building materials, to space travel to name but a few. In several cases quite high doses to some individuals are shown to occur. Accounts are

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given here of methods to prevent and reduce exposures to such sources.

This revised and extended 6 volume handbook set is the most comprehensive and voluminous reference work of its kind in the field of nuclear chemistry. The Handbook set covers all of the chemical aspects of nuclear science starting from the physical basics and including such diverse areas as the chemistry of transactinides and exotic atoms as well as radioactive waste management and radiopharmaceutical chemistry relevant to nuclear medicine. The nuclear methods of the investigation of chemical structure also receive ample space and attention. The

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international team of authors consists of scores of world-renowned experts - nuclear chemists, radiopharmaceutical chemists and physicists - from Europe, USA, and Asia. The Handbook set is an invaluable reference for nuclear scientists, biologists, chemists, physicists, physicians practicing nuclear medicine, graduate students and teachers - virtually all who are involved in the chemical and radiopharmaceutical aspects of nuclear science. The Handbook set also provides further reading via the rich selection of references.

Naturally Occurring Radioactive Materials in Construction (COST Action NORM4Building) discusses

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the depletion of energy resources and raw materials and its huge impact not only on the building market, but also in the development of new synthetic building materials, whereby the reuse of various (waste) residue streams becomes a necessity. It is based on the outcome of COST Action TU 1301, where scientists, regulators, and representatives from industry have come together to present new findings, sharing knowledge, experiences, and technologies to stimulate research on the reuse of residues containing enhanced concentrates of natural radionuclides (NORM) in tailor-made building materials. Chapters address legislative issues, measurement, and assessment of building materials, physical and

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chemical aspects, from raw materials, to residues with enhanced concentrations of natural radionuclides (NORM), processes, building products containing NORM, and end-of-life and reuse requirements.

Presents a holistic approach in developing new reuse pathways involving experts on different (technical, chemical, physical, ecological, economical and radiological) aspects of materials Provides practical guidance that address questions and comments regarding the EU-BSS standards linked to the processing of NORM in building materials Investigates realistic legislative scenarios Primarily aimed at industry and actors linked to the industry, but also researchers Contains a strong international network of

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