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Environmental Radioactivity from Natural, Industrial, and Military Sources is the comprehensive source of information on radiation in the environment and human exposure to radioactivity. This Fourth Edition isa complete revision and extension of the classic work, reflecting major new developments and concerns as the Cold War ended, nuclear weapons began to be dismantled, and cleanup of the nuclear weapons facilities assumed center stage.

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Environmental Radioactivity | *ScienceDirect*

Environmental Radioactivity from Natural, Industrial and Military Sources. 4th Edition. Steve Jones. Journal of Radiological Protection, Volume 18, Number 3. Figures. Tables. ... Merrill Eisenbud's series of books on environmental radioactivity have long had a place on the bookshelves of those involved with the environmental aspects of radiation ...

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Groups sue EPA over flares at industrial facilities ...

Nature, in the broadest sense, is the natural, physical, or material world or universe. "Nature" can refer to the phenomena of the physical world, and also to life in general. The study of nature is a large, if not the only, part of science.Although humans are part of nature, human activity is often understood as a separate category from other natural phenomena.

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Environmental Radioactivity From Natural Industrial And ...

Numerous sources of ionizing radiation can lead to human exposure: natural sources, nuclear explosions, nuclear power generation, use of radiation in medical, industrial and research purposes, and radiation emitting consumer products. Before assessing the radiation dose to a population one requires a precise knowledge of the activity of a number of radionuclides. The basis for the assessment of the dose to a population from a release of radioactivity to the environment, the estimation of the potential clinical health effects due to the dose received and, ultimately, the implementation of countermeasures to protect the population, is the measurement of radioactive contamination in the environment after the release. It is the purpose of this book to present the facts about the presence of radionuclides in the environment, natural and man made. There is no aspect of radioactivity, which has marked the passing century, not mentioned or discussed in this book.

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

The basic goal of this book is to examine the complex state of radioactivity in the environment, including its sources and applications. In principle, there are two sources of environmental radioactivity, namely man-made and natural. The authors of this book set out to analyze mainly empirical aspects of the activities of both groups. On one hand, a detailed analysis of the sources releasing radionuclides into the environment by human activities should, while describing environmental pollution and its dangers, contribute to its decrease in the future. On the other hand, the analyses of natural radionuclides, as well as their influences and use in different fields, serve to complete an evaluation of the present state of environmental radioactivity. All auxiliary parts (e.g., principles of radionuclide analyses) are included to the extent necessary for understanding the basic themes. The many recent examples contained in the book will be useful in studying various problems of radioactivity in the present environment, and can help, not only in preparing, carrying out and evaluating outdoor and laboratory experiments, but also in protection of the environment and human health through analyses of possible sources of radioactive pollution. Audience: This book can be used by research workers, university professors and students in scientific and technological disciplines (e.g., nuclear physics and engineering, radioanalytical and nuclear chemistry, geology, hydrology, and archaeology), and by those involved in environmental protection and control in the nuclear industry (including nuclear weapons and nuclear safety).

Anthropogenic radionuclides have been introduced into the environment by incidents such as nuclear weapon tests, accidents in nuclear power plants, transport accidents and accidental or authorised discharges from nuclear facilities. Scientists need accurate analysis of these radionuclides in order to estimate the risk to the public from released radioactivity. This book is a snapshot of the work of leading scientists from across the globe on environmental radiochemistry and radioecology, nuclear forensics and radiation detection, radioanalytical techniques and nuclear industry applications. The research contributions were first presented at the 13th International Symposium on Nuclear and Environmental Radiochemical Analysis in September 2018. This essential work provides a key reference for graduates and professionals who work across fields involving analytical chemistry, radiochemistry, environmental science and technology, and waste disposal.

Naturally occurring radionuclides are found throughout the earth's crust, and they form part of the natural background of radiation to which all humans are exposed. Many human activities-such as mining and milling of ores, extraction of petroleum products, use of groundwater for domestic purposes, and living in houses-alter the natural background of radiation either by moving naturally occurring radionuclides from inaccessible locations to locations where humans are present or by concentrating the radionuclides in the exposure environment. Such alterations of the natural environment can increase, sometimes substantially, radiation exposures of the public. Exposures of the public to naturally occurring radioactive materials (NORM) that result from human activities that alter the natural environment can be subjected to regulatory control, at least to some degree. The regulation of public exposures to such technologically enhanced naturally occurring radioactive materials (TENORM) by the US Environmental Protection Agency (EPA) and other regulatory and advisory organizations is the subject of this study by the National Research Council's Committee on the Evaluation of EPA Guidelines for Exposures to Naturally Occurring Radioactive Materials.

The Radioactivity in the Environment Series addresses the key aspects of this socially important and complex interdisciplinary subject. Presented objectively and with the ultimate authority gained from the many contributions by the world's leading experts, the negative and positive consequences of having a radioactive world around us is documented and given perspective. In a world in which nuclear science is not only less popular than in the past, but also less extensively taught in universities and colleges, this book series will fill a significant educational gap. Radioactivity in the Terrestrial Environment presents an updated and critical review of designing, siting, constructing and demonstrating the safety and environmental impact of deep repositories for radioactive wastes. It is structured to provide a broad perspective of this multi-faceted, multi-disciplinary topic providing enough detail for a non-specialist to understand the fundamental principles involved. Contains extensive references to sources of more detailed information Provides a detailed summary of radioactivity in terrestrial ecosystems, providing a substantial and essential reference on the subject Discusses lesser-known sources of radiation exposure that provide useful information for those seeking to place environmental radioactivity into perspective

This book provides an account of biological and physical information on nuclear power and its potential environmental impact.

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