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# Man-Made and Natural Radioactivity in Environmental Pollution and Radiochronology

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Edited by  
Richard Tykva and Dieter Berg



Kluwer Academic Publishers

# Manmade And Natural Radioactivity In Environmental Pollution And Radiochronology

**Richard Tykva, Dieter Berg**



## **Manmade And Natural Radioactivity In Environmental Pollution And Radiochronology:**

*Man-Made and Natural Radioactivity in Environmental Pollution and Radiochronology* Richard Tykva, Dieter Berg, 2004-01-31 The goal of this book is to examine the complex state of radioactivity in the environment and to understand the interplay of its two principal sources man made and natural The text examines human contributions to release of radionuclides with an eye to future reductions and assesses natural occurrences in an evaluation of baseline radioactivity

*Man-Made and Natural Radioactivity in Environmental Pollution and Radiochronology* Richard Tykva, Dieter Berg, 2013-03-14 Radioactivity can be detected at different levels in almost all objects all over the world including the human body This omnipresence of naturally occurring radioactivity is of immediate and crucial concern to people who work in the nuclear industry to state and local authorities responsible for environmental protection and control of nuclear weapons and to researchers as physics e g interaction in scientific and technological disciplines such of radiation with matter chemistry e g management of radioactive wastes biology Ce g radiation bioeffects and risks ecology e g remediation of environmental pollution electronics e g measurement instruments etc Unlike other environmental pollutants such as heavy metals and pesticides some other scientific disciplines for example archaeology hydrology and geology profit by the environmental radionuclides using methods based on their application in radiochronology 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 empiric al 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 Advances in the Toxicity of Construction and Building Materials F. Pacheco-Torgal, Joseph O.

Falkinham, Jerzy Galaj, 2022-03-05 *Advances in the Toxicity of Construction and Building Materials* presents the potential and toxic effects of building materials on human health along with tactics on how to minimize exposure Chapters are divided into four sections covering the toxicity of indoor environments fire toxicity radioactive materials and toxicity from plastics metals asbestos nanoparticles and construction wastes Key chapters focus on the reduction of chemical emissions in houses with eco labelled building materials and potential risks posed by indoor pollutants that may include volatile organic compounds VOC formaldehyde semi volatile organic compounds SVOC radon NOx asbestos and nanoparticles Known illnesses and reactions that can be triggered by these toxic building materials include asthma itchiness burning eyes skin irritations or rashes nose and throat irritation nausea headaches dizziness fatigue reproductive impairment disruption of the endocrine system impaired child development and birth defects immune system suppression and even cancer Provides an essential guide to the potential toxic effects of building materials on human health Comprehensively examines materials responsible for formaldehyde and volatile organic compound emissions as well as semi volatile organic compounds Presents coverage on fire

toxicity and an evaluation of the radioactivity of building materials Includes several cases studies throughout and addresses current international standards      **A Primer on Environmental Sciences** Matthew N. O. Sadiku,Uwakwe C.

Chukwu,Olaniyi D. Olaleye,2022-02-09 In a modern society it is easy to forget that our society depends largely on the environmental processes that govern our world Environment refers to an aggregate of surroundings in which living beings such as humans animals and plants live and non living things exist It includes air water land living organisms and materials surrounding us The environment is an important part of our daily lives Environmental issues are now part of every career path and employment area Environmental science is an interdisciplinary field that applies principles from all the known technologies and sciences to study the environment and provide solutions to environmental problems It is the study of how the earth works and how we can deal with the environmental issues we face There is an ever demanding need for experts in this field because the environment is responsible for making our world beautiful and habitable For this reason environmental science is now being taught at high schools and higher institutions of learning Education on environmental science will empower the youths to take an active role in the world in which they live      *Metals in Society and in the Environment* Lars

Landner,Rudolf Reuther,2006-01-15 In 2002 the Swedish Metal Information Task Force MITF engaged the Environmental Research Group MFG to update previous monographs on copper zinc and major alloying metals such as chromium nickel and molybdenum in society and in the environment This book presents new results on metal fluxes from society to the environment on metal speciation in water soil and sediment and its interpretation in terms of mobility biological uptake and toxicity The scientific fundamentals of new approaches like the Acid Volatile Sulphide AVS concept to predict metal bioavailability in sediments and the Biotic Ligand Model BLM to calculate the toxicity of metals to aquatic organisms are critically evaluated with a focus on copper nickel zinc and in part chromium Recent scientific advances now offer an improved understanding of the mechanisms and factors controlling the intricate behaviour of trace metals their interactions uptake and effect in natural systems Traditional risk assessment methods usually built on quite crude toxicity tests done in unrealistic laboratory waters and did not consider natural conditions In contrast modern approaches now increasingly involve the full utilisation of site specific factors which are decisive for the formation of bioavailable and toxic metal forms Audience This book provides excellent guidance not only to scientists focusing on the assessment of the ecological risk of metals but also to authorities decision makers in industry educational staff and the interested public concerned with the occurrence and fate of trace metals      Environmental and Health Risk Assessment and Management Paolo Ricci,2005-11-07

This book is about the legal economical and practical assessment and management of risky activities arising from routine catastrophic environmental and occupational exposures to hazardous agents It includes a discussion of aspects of US and European Union law concerning risky activities and then develops the economic analyses that are relevant to implementing choices within a supply and demand framework The book also discusses exposure response and time series models used in

assessing air and water pollution as well as probabilistic cancer models including toxicological compartmental pharmacokinetic models and epidemiological relative risks and odds ratios based models Statistical methods to measure agreement correlation and discordance are also developed The methods and criteria of decision analysis including several measures of value of information VOI conclude the expositions This book is an excellent text for students studying risk assessment and management

**Radionuclides in the Environment** David A. Atwood, 2013-02-19 Nuclear energy is the one energy source that could meet the world's growing energy needs and provide a smooth transition from fossil fuels to renewable energy in the coming decades and centuries It is becoming abundantly clear that an increase in nuclear energy capacity will and probably must take place However nuclear energy and the use of radionuclides for civilian and military purposes lead to extremely long lived waste that is costly and highly problematic to deal with Therefore it is critically important to understand the environmental implications of radionuclides for ecosystems and human health if nuclear energy is to be used to avoid the impending global energy crisis The present volume of the EIC Books series addresses this critical need by providing fundamental information on environmentally significant radionuclides The content of this book was developed in collaboration with many of the authors of the chapters Given the enormity of the subject the Editor and the Authors had to be judicious in selecting the chapters that would appropriately encompass and describe the primary topics particularly those that are of importance to the health of ecosystems and humans The resulting chapters were chosen to provide this information in a book of useful and appropriate length Each chapter provides fundamental information on the chemistry of the radionuclides their occurrence and movement in the environment separation and analyses and the technologies needed for their remediation and mitigation The chapters are structured with a common systematic format in order to facilitate comparisons between elements and groups of elements About EIC Books The Encyclopedia of Inorganic Chemistry EIC has proved to be one of the defining standards in inorganic chemistry and most chemistry libraries around the world have access either to the first or second print edition or to the online version Many readers however prefer to have more concise thematic volumes targeted to their specific area of interest This feedback from EIC readers has encouraged the Editors to plan a series of EIC Books focusing on topics of current interest They will appear on a regular basis and will feature leading scholars in their fields Like the Encyclopedia EIC Books aims to provide both the starting research student and the confirmed research worker with a critical distillation of the leading concepts in inorganic and bioinorganic chemistry and provide a structured entry into the fields covered This volume is also available as part of Encyclopedia of Inorganic Chemistry 5 Volume Set This set combines all volumes published as EIC Books from 2007 to 2010 representing areas of key developments in the field of inorganic chemistry published in the Encyclopedia of Inorganic Chemistry Find out more

[The Ecology of Transportation: Managing Mobility for the Environment](#) John Davenport, Julia L. Davenport, 2006-06-30 Human transport by land sea and air has increased exponentially through time in intensity paralleling rises in population prosperity and rates of technological

change Transport has considerable ecological effects many of them detrimental to environmental sustainability This volume brings together international experts from a variety of disciplines to review the ecological effects and their causes in terms of road rail ship and aircraft transport The contributors have different attitudes and agendas Some are ecologists some planners others social scientists Focus ranges from identification of threats and amelioration of damaging effects through to future design of transport systems to minimize environmental degradation Some chapters consider restricted areas of the globe others the globe itself Views encompass deep pessimism and cautious optimism

**Chernobyl - What Have We Learned?** Yasuo Onishi, Oleg V. Voitsekhovich, Mark J. Zheleznyak, 2007-06-03 Twenty years ago on April 26 1986 Unit 4 of the Chernobyl Nuclear Power Plant experienced a nuclear reactor accident and released six times more radionuclides into the atmosphere than the Hiroshima atomic bomb The accident significantly damaged the environment and is expected to result in as many as 4000 deaths due to leukemia and other cancers The cause of the accident was specific to a particular Soviet built reactor but the environmental and human consequences are applicable to Western nuclear plant accidents Contrary to public perception the former Soviet Union did what they could to protect the public from the Chernobyl accident within funding restrictions They involved the highest level of political and scientific leaders and even conducted public surveys to identify concerns and fears However the secrecy with which the information was treated caused mistrust of the Chernobyl assessment and contributed to the widespread mental health problems associated with the accident Some Chernobyl countermeasures were successful but many were ineffective or made things worse We hope that the details presented in this book may be useful for Western countries in preparing for possible accidents or potential terrorist attacks with nuclear or chemical agents The assessment of the Chernobyl accident its impacts and its count measures and remediation has been published widely in many Western nations but much of the research is still known only in Ukraine and Russia

*The Fernow Watershed Acidification Study* Mary Beth Adams, David R. DeWalle, John L. Hom, 2007-10-12 In the late 1980 s a considerable amount of research addressing the effects of acidic deposition was begun much of it related to the Congressionally mandated National Atmospheric Precipitation Assessment Program NAPAP As a result of the 10 year NAPAP program effects on human health materials structures visibility and terrestrial and aquatic ecosystems were evaluated As a result of NAPAP funded research negative effects of acidic deposition were documented on freshwater lakes in the Adirondacks and on the red spruce of the Adirondacks and northern Appalachians One of the recommendations of the NAPAP Forest Response Program however was that a better understanding of the effects of acidic deposition and its constituents on processes within forest ecosystems was needed In response to this need the US Environmental Protection Agency EPA funded an ambitious program to manipulate the geochemical processes within watersheds in the United States Originally there were to be many watersheds to be treated to encompass the scope of vegetation types climate and deposition regimes Ultimately only two such studies one at on the Fernow Experimental Forest in West Virginia and one at Bear Brook

Watersheds in Maine BBWM were implemented Both are ongoing more than fifteen years later Work began in 1987 in preparation for the Fernow Watershed Acidification Study Much attention was initially devoted to issues related to analyses of water chemistry and the quality control quality assurance of the data coming from the study

**Uranium in the Environment** Broder J. Merkel, 2006 This book presents the results from the Uranium Mining and Hydrogeology Congress held in September 2005 in Freiberg Germany It addresses scientists and engineers involved in the areas of uranium mining and milling sites clean up measures emissions of nuclear power plants and radioactive waste disposal as well as political decision makers The topics covered are impact on groundwater from radionuclide emission analytical specification techniques chemical toxicity radioisotope plant uptake microbiology geochemical and reactive transport case studies on active and abandoned uranium mines and milling sites long term storage of radioactive waste passive in situ treatment techniques and risk assessment studies The accompanying CD ROM includes all papers in colour

**Foundations of Environmental Sustainability** Larry Rockwood, Ronald Stewart, Thomas Dietz, 2008-06-04 This book reviews and analyzes the period roughly from the 1950s to the present when the environment became an issue as important as economic growth or war and peace to assess the current situation and begin planning for the challenges that lie ahead Most people are aware of both the environmental destruction taking place around the world and of the specter of climate change The devastation of New Orleans by hurricane Katrina illustrates the potential for disaster when climate change is combined with the mismanaged environmental policy How did we get to this point What has been done and what can be done to avoid future environmental disasters Thirty two contributing chapter authors among them one of the principal drafters of the National Environmental Policy Act Chief of the African Environment Division and the World Bank Vice President of the Center for Conservation Innovation at the World Wildlife Fund President of the Zoological Society of London former President of the Ecological Society of America use their unique authoritative perspective to review the evolution of environmental science and policy in the past half century Each author describes the evolution of environmental science and policy in the past half century and consider the challenges of the future Although the authors of this book come from various fields they have followed paths that have generally converged on the concept of sustainability This book attempts to define what sustainability is how we can achieve it and what the prospects for sustainability in the future are

**Physics and Engineering of Radiation Detection** Syed Naeem Ahmed, 2014-11-20 Physics and Engineering of Radiation Detection presents an overview of the physics of radiation detection and its applications It covers the origins and properties of different kinds of ionizing radiation their detection and measurement and the procedures used to protect people and the environment from their potentially harmful effects The second edition is fully revised and provides the latest developments in detector technology and analyses software Also more material related to measurements in particle physics and a complete solutions manual have been added Discusses the experimental techniques and instrumentation used in different detection systems in a

very practical way without sacrificing the physics content Provides useful formulae and explains methodologies to solve problems related to radiation measurements Contains many worked out examples and end of chapter problems Detailed discussions on different detection media such as gases liquids liquefied gases semiconductors and scintillators Chapters on statistics data analysis techniques software for data analysis and data acquisition systems

**Biogeochemistry of Trace Elements in Arid Environments** Fengxiang X. Han, 2007-08-23 Global warming has worsened the water resource crisis in many arid zones worldwide from Africa to Asia affecting millions of people and putting them at risk of hunger Effective management of arid zone resources including understanding the risks of toxic trace and heavy elements to humans coupled with the need to produce more food to feed the world's growing population has thus become increasingly important This very timely book the only one of its kind on the market fills the gap of our knowledge of trace elements in these regions Topics include content and distribution solution chemistry solid phase chemistry selective sequential dissolution techniques transfer fluxes bioavailability pollution and remediation In order to illustrate the themes a comprehensive and focused case study is presented and the book closes with the global perspectives on anthropogenic interferences in the natural trace elements distribution

**Recent Advances in Trace Elements** Katarzyna Chojnacka, Agnieszka Saeid, 2018-02-26 Comprehensive and multidisciplinary presentation of the current trends in trace elements for human animals plants and the environment This reference provides the latest research into the presence characterization and applications of trace elements and their role in humans animals and plants as well as their use in developing novel functional feeds foods and fertilizers It takes an interdisciplinary approach to the subject describing the biological and industrial applications of trace elements It covers various topics such as the occurrence role and monitoring of trace elements and their characterization as well as applications from the preliminary research to laboratory trials Recent Advances in Trace Elements focuses on the introduction and prospects of trace elements tackles environmental aspects such as sources of emission methods of monitoring and treatment remediation processes goes over the biological role of trace elements in plants animals and human organisms and discusses the relevance of biomedical applications and commercialization A compendium of recent knowledge in interdisciplinary trace element research Uniquely covers production and characterization of trace elements as well as the industrial and biomedical aspects of their use Paves the way for the development of innovative products in diverse fields including pharmaceuticals food environment and materials science Edited by well known experts in the field of trace elements with contributions from international specialists from a wide range of areas Unique in presenting comprehensive and multidisciplinary information of the key aspects of trace elements research in a digestible form this book is essential reading for the novice and expert in the fields of environmental science analytical chemistry biochemistry materials science pharmaceutical science nutraceutical and pharmaceutical sciences It is also valuable for companies that implement new products incorporating trace elements to the market

**Biophysico-Chemical Processes of Heavy Metals and Metalloids in Soil Environments** Antonio

Violante, Pan Ming Huang, Geoffrey M. Gadd, 2008-02-13 Written by a multidisciplinary group of soil and environmental scientists *Biophysico Chemical Processes of Heavy Metals and Metalloids in Soil Environments* provides the scientific community with a critical qualitative and quantitative review of the fundamentals of the processes of pollutants in soil environments The book covers pollutants speciation mobility bioavailability and toxicity and impacts on development of innovative restoration strategies In addition the development of innovative remediation strategies for polluted soils is covered

*The Cossack Myth* Serhii Plokhyy, 2012-07-26 The fascinating story of The History of the Rus one of the most influential historical texts of the modern era

**Contamination of Water** Arif Ahamad, Sharf Elahi Siddiqui, Pardeep Singh, 2021-08-06 Water containing significant amounts of inorganic and organic contaminants can have serious environmental consequences and serious health implications when ingested *Contamination of Water Health Risk Assessment and Treatment Strategies* takes an interconnected look at the various pollutants the source of contamination the effects of contamination on aquatic ecosystems and human health and what the potential mitigation strategies are This book is organized into three sections The first section examines the sources of potential contamination This includes considering the current scenario of heavy metal and pesticide contamination in water as well as the regions impacted due to industrialization mining or urbanization The second section goes on to discuss water contamination and health risks caused by toxic elements radiological contaminants microplastics and nanoparticles and pharmaceutical and personal care products This book concludes with a section exploring efficient low cost treatment technologies and remediation strategies that remove toxic pollutants from water *Contamination of Water* incorporates both theoretical and practical information that will be useful for researchers professors graduate students and professionals working on water contamination environmental and health impacts and the management and treatment of water resources Provides practical case studies of various types and sources of contamination Discusses inorganic and organic contaminants and their impact on human health Evaluates effective water treatment and remediation technologies to remove toxins from water and minimize risk

*Astrobiology of Earth* Joseph Gale, 2009-04-16 An understanding of the unique conditions that allowed life to emerge and exist today on our planet is essential if we are to answer two fundamental questions facing humanity the continuation of life on earth and the existence of life outside our planet This book contributes to our understanding of astrobiology as it applies to planet Earth

*Lanthanides Series Determination by Various Analytical Methods* Mohammad Reza Ganjali, Vinod Kumar Gupta, Farnoush Faridbod, Parviz Norouzi, 2016-02-25 *Lanthanides Series Determination by Various Analytical Methods* describes the different spectroscopic and electrochemical methods used for the determination and measurement of lanthanides Numerous examples of determination methods used in real sample analysis are gathered and explained and the importance of lanthanides as applied in chemical industry agriculture clinical and pharmaceutical industry and biology is discussed with many applications and recent advantages given Written by world leading experts in research on lanthanide determination Discusses

determination methods that range from very advanced and expensive techniques to simple and inexpensive methods A single source of information for a broad collection of lanthanide detection techniques and applications Includes a complete list of reports and patents on lanthanide determination Discusses both advantages and disadvantages of each determination method giving a well balanced overview

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