

# RADIOACTIVE POLLUTION

# **Radioactive Pollutants**

**Ione Auston** 

#### **Radioactive Pollutants:**

Radioactive Pollutant Nitish Kumar, 2024-12-10 This book sheds light on the global environmental issue and proposes solutions to contamination through multi disciplinary approaches Radioactivity occurs naturally Ionizing radiation has always been a threat to humans and all other living things on earth While the average global readings could be a suitable benchmark for what must be deemed normal the natural level of radiation exposure varies by around an order of magnitude for different locations of the earth Regardless of whether this degree of radiation exposure qualifies as innocuous it cannot be avoided because some diseases may be caused by exposure to naturally occurring radiation As a result these natural exposures serve as the foundation for and comparison point for radiation protection principles such as dose limits or limitations. The majority of the ionizing radiation that the world's population is exposed to comes from natural sources The public receives maximum doses from nuclear sites that are now in normal operation those are typically two orders of magnitude below the background radiation In industrialized nations medical uses of radioactivity and ionizing radiation result in mean doses that are comparable to those from natural radiation but individual doses vary greatly This edited book brings together a diverse group of researchers to address the challenges posed by global mass poisoning caused by radionuclides This book contains three sections First section describes the different sources of radioactive pollutant in the environment Second section explains the health risk linked to radioactive pollutant Third section addresses sustainable remediation strategies of radioactive waste and the potential applications of recent biological technology in providing solutions. This book is a valuable resource to students academics researchers and environmental professionals doing field work on management of radioactive waste throughout the Radioactive Contamination at Sewage Treatment Plants United States. Congress. Senate. Committee on world Governmental Affairs, 1995 Distributed to some depository libraries in microfiche Modern Environmental Analysis <u>Techniques for Pollutants</u> Chaudhery Mustansar Hussain, Rustem Kecili, 2019-08-20 Modern Environmental Analysis Techniques for Pollutants presents established environmental analysis methods rapidly emerging technologies and potential future research directions As methods of environmental analysis move toward lower impact lower cost miniaturization automation and simplicity new methods emerge and ultimately improve the accuracy of their analytical results This book gives in depth step by step descriptions of a variety of techniques including methods used in sampling field sample handling sample preparation quantification and statistical evaluation Modern Environmental Analysis Techniques for Pollutants aims to deliver a comprehensive and easy to read text for students and researchers in the environmental analysis arena and to provide essential information to consultants and regulators about analytical and quality control procedures helpful in their evaluation and decision making procedures Bridges the gap in current literature on analytical chemistry techniques and their application to environmental analysis Covers the use of nanomaterials in environmental analysis as well as the monitoring and analysis of nanomaterials in the environment Looks to the past present and future of environmental analysis with

chapters on historical background established and emerging techniques and instrumentation and predictions Chemistry of the Environment E. N. Ramsden, 1996 Written for students undertaking Environmental Chemistry options Concise student friendly and well illustrated with diagrams tables and charts Equally suitable for use as stand alone texts or as ancillary texts to any core chemistry text The Science of Environmental Pollution Frank R. Spellman, 2021-06-17 This new edition of The Science of Environmental Pollution presents common sense approaches and practical examples based on scientific principles models and observations but keeps the text lively and understandable for scientists and non scientists alike It addresses the important questions regarding environmental pollution What is it What is its impact What are the causes and how can we mitigate them But more than this it stimulates new ways to think about the issues and their possible solutions This fourth edition has been updated throughout and greatly expands its coverage of endocrine disruptors and includes all new information on persistent forever chemicals Environmental issues continue to attract attention at all levels Some sources say that pollution is the direct cause of climate change others deny that the possibility even exists This text sorts through the hyperbole providing concepts and guidelines that not only aid in understanding the issues but equip readers with the scientific rationale required to make informed decisions Features Updated throughout and contains a new chapter on the effects of endocrine disruptors in the environment Provides an introduction to air soil and water pollution sources and remediation Addresses pressing issues such as global climate change rising sea levels polluted air increased weather phenomena and the state of potable water worldwide Supplies a vital information source for policy makers involved in decisions concerning environmental management Includes case studies examples and study questions The Science of Environmental Pollution is suitable for students taking undergraduate level courses dealing with the environment and related pollution issues It will also serve as a useful reference for environmental managers politicians legal experts and interested general readers The Science of Environmental Pollution, Second Edition Frank R. Spellman, 2009-12-02 The Science of Environmental Pollution focuses on pollution of the atmosphere of surface and groundwater and of soil the three environmental mediums and solving pollution problems by using real world methods This introductory textbook in environmental science focuses on pollution of the atmosphere of surface and groundwater and of soil all critical to our very survival **Health Effects of Nuclear Radiation** Ione Auston, 1982 National Library of Medicine Classification National Library of Medicine (U.S.),1994 Air Pollution: Science, Engineering and Management Fundamentals Mukesh Khare, Prateek Sharma, Sri Harsha Kota, Sumanth Chinthala, 2024-09-10 This comprehensive and up to date textbook discusses fundamental aspects of air pollution with the help of solved and case examples within the chapter and review questions at the end of each chapter The textbook discusses in depth the entire domain of air pollution from the fundamentals sources types effects associated risks ecology meteorology climatology sampling monitoring and instrumentation laboratory quality control data analysis and interpretation modelling control technologies and indoor air

pollution to the latest principles of air quality management and legislation regulations and standards This book Covers fundamentals of air pollution the atmosphere air pollution meteorology effects and control of air pollution Discusses engineering aspects of air quality management and includes concepts of ecology growth and sustainable development in the context of air pollution Explains air pollution mitigation philosophies legislation regulations and standards Comprehensively discusses topics including air quality monitoring sampling air quality modelling and air quality data analysis Includes case examples for better understanding of the topics and solution manual for the benefit of instructors The text will be useful for senior undergraduate and post graduate students in the fields of science and engineering Pedagogical features including solution manual will be uploaded on the website **Radioactive Waste Processing and Disposal** United States. Energy Research and Development Administration. Technical Information Center,1975 *Permuted Medical Subject Headings* National Library of Medicine (U.S.),1991 **BRH Publications Index** United States. Bureau of Radiological Health,1972

**Environmental Pollution Control** Jingling Liu, Lulu Zhang, Zhijie Liu, 2017-09-11 The book illustrates theories of sustainable development from physical chemical and biological aspects and then introduces technologies to prevent pollution of water air solid waste and noise finally concludes with ecological environmental protection and restoration techniques With interdisciplinary features and abundant case studies it is an essential reference for researchers and industrial engineers

A Primer on Earth Pollution: Pollution Types and Disposal J. Senthil Kumar, P. Ponmurugan, A. Vinoth Kanna, 2020-12-23 A Primer on Earth Pollution Pollution Types and Disposal is an encyclopedia of important research articles and short essays on pollution Chapters in the initial half provide information about a wide variety of pollutants dyes and microplastics and contributing factors thermal pollution and the impact of GM plants for instance Each chapter explains the nature of polluting agents and presents notes and references on preventive measures Notes on the associated clinical complications due to exposure are also proved where applicable such as the case of MDR bacteria in marine environments The latter chapters of the book cover the biotechnology of medical waste disposal using microbes as well as nanotechnology used for limiting the spread of COVID 19 The volume is a handy reference for students and trainees in the field of environmental science as it brings a balance of basic and applied information on the subject of pollution Thesaurus of Water Resources Terms United States. Bureau of Reclamation, 1971 **Environmental Health and Science Desk Reference** Frank R. Spellman, Revonna M. Bieber, 2012-02-02 Every branch of science every profession and every engineering process has its own language for communication Environmental health and environmental science are no different To work within these major environmental fields you must acquire a fundamental but wide ranging vocabulary and knowledge of the components that make them up An understanding of the tools techniques and key terms and concepts in the interrelated fields of environmental health and science is necessary for effective practice In Environmental Health and Science Desk Reference authors Frank R Spellman and Revonna M Bieber define and explain the terms and concepts used by environmental professionals environmental science professionals safety practitioners and engineers and non science professionals Environmental science and health and occupational health and safety are not single topics but rather a complex colorful and diversified array of interrelated subjects including all of the basic sciences computer science government engineering measurement physics health and disease energy security disease injury identification prevention and control and much more The practicing environmental specialist or student of environmental science technology health and safety engineering should know these topics Without some knowledge of these topics it is difficult if not impossible to practice in any of the environmental fields The authors of this comprehensive reference work have more than 35 years of practical experience in environmental health and science They have selected and explained more than 6 000 terms in this authoritative reference The entries range from single sentence definitions for the simplest terms to explanations of over 1 000 words for the most complex or important concepts The authors demonstrate many of the entries with examples or case studies and the reference includes more than 100 drawings and diagrams which illustrate the most important principles of these fields Spellman and Bieber provide an accessible guide to the language and background knowledge necessary for work in environmental fields writing in straightforward English and avoiding technical jargon wherever possible This is an essential reference for anyone working in environmental health environmental science and related fields U.S. Environmental Protection Agency Library System Book Catalog United States. Environmental Protection Agency. Library Systems Microbial Approach of Biofiltration in Industrial Wastewater Treatment for the Sustainability of Branch, 1975 **Environment** Maulin P. Shah, 2025-02-04 The ever increasing number of pollutants released into the environment drives the search for new treatment technologies or the modification of existing ones In this sense innovation in biofiltration systems seems promising and therefore a book on the current developments and innovations on its subject is very appropriate Biofiltration is a relatively emerging new technology applied to the treatment of wastewater and other toxic substances Over the past two decades this technology has become an economically viable process for treating the wide variety of unruly pollutants released into the environment For example it is speculated that the US biofiltration market will reach more than 100 million by 2020 This book aims to show how innovation in biofiltration can provide effective solutions to overcome the serious problem of water pollution worldwide The removal of contaminants will result from the combined effects of biological oxidation adsorption and filtration processes Many physicochemical and operational factors influence the performance treatment costs and long term stability of biofilters for wastewater treatment This book focuses on identifying factors that affect biofiltration explains their influence and provides guidelines on how to control these factors to optimize better control over the control of pollutants present in wastewater treatment plants The fundamental basis of treatment in biofilters is the action of microorganisms that degrade pollutants and consequently the book also discusses in depth the microbial ecology of biofiltration Advanced Two-Dimensional Nanomaterials for Environmental and Sensing Applications Peter R.

Makgwane, Naveen Kumar, David E. Motaung, 2024-12-24 Advanced Two Dimensional Nanomaterials for Environmental and Sensing Applications provides state of the art progress developments in the design strategies of 2D based nanomaterials It covers specific focused applications in respective environmental challenges posed by pollutants such as chemical gases bacterial and microbial textile dyes pharmaceutical antibiotics agricultural pesticides and toxic heavy metals in water and air contaminations It elaborates the applications of 2D nanomaterials in the context of technologies such as sensing and detection to monitor pollutants as well as photocatalysis and adsorption for the removal of pollutants Features Elaborates the applications of 2D nanomaterials in the context of sensing and detection to monitor pollutants as well as photocatalysis and adsorption for the removal of pollutants Focuses on environmental pollutants detection removal or remediation and monitoring device fabrications Discusses materials of specific dimension 2D Covers both water and air remediation Includes photocatalytic degradations and antimicrobial disinfection This book is aimed at graduate students and researchers in chemical and civil engineering materials science and nanomaterials Aquatic Contamination Rouf Ahmad Bhat, Gowhar Hamid Dar, Fernanda Maria Policarpo Tonelli, Saima Hamid, 2023-09-26 Aquatic Contamination Authoritative resource presenting techniques and technologies to sustainably neutralize environmental contamination in aquatic plants microorganisms and more Two thirds of the Earth is covered with aquatic habitats that play a key role in stabilizing the global environment and providing a wide variety of services to increasing human needs Nevertheless anthropogenic activities are rapidly destroying the quality of both fresh and marine waters globally due to excessive use of chemicals fertilizers and pollution from suburban and industrial areas eventually making their way into the aquatic world Aquatic Contamination Tolerance and Bioremediation presents the broader spectrum of biological applicability of microbes with better understanding of cellular mechanisms for remediation of aquatic contaminants. The book also focuses on practices involved in molecular and genetic approaches necessary to achieve targets of bioremediation and phytoremediation to solve global water contamination problems Such approaches pave the way for the utilization of biological assets to design new efficient and environmentally sound remediation strategies by inculcating genomic techniques at cellular and molecular levels with model assessment Aquatic Contamination provides a comprehensive background for readers interested in all perspectives of the contamination of aquatic environs It covers various research aspects which are being carried out globally to understand simulation models in the assessment of xenobiotics role of genomics transgenic plants and microbial enzymes for degradation and removal of toxic substances in aquatic environs Key features include Extensive coverage of interactions between plants metals and microbes including the influence of biotic and abiotic factors Comprehensive discussion of the details of molecular mechanisms from assimilation to detoxification levels Exploration of the enzymatic approaches of potential plants acting as hyper accumulators for contaminants in aquatic environs Details of sustainable tools such as transgenic plants for the manipulation of important functional microbial genes to achieve higher certainty of bioremediation Details of advances in

tools and models like micro arrays and simulation models for the complete assessment of xenobiotic compounds from cellular to degradation hierarchies Aquatic Contamination Tolerance and Bioremediation will be substantially helpful to environmentalists microbiologists biotechnologists and scientists providing essential information on various modern technologies for the remediation of contaminants in aquatic ecosystems

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