# Radioecological Techniques

Vincent Schultz <sup>and</sup> F. Ward Whicker



# **Radioecological Techniques**

**Brian D. Fath** 

#### Radioecological Techniques:

Radioecological Techniques Vincent Schultz,F. Ward Whicker,2012-12-06 During the twenty years the authors have been associated with the field of radiation ecology there has been a diversified and increasing use of radionuclides in applied and basic biological research Prior to the advent of the atomic age in the 1940s the use of radionuclides as tracers was initiated and following that period one observed a dramatically increased use in many disciplines Concurrent with this increase there appeared many books and articles on radionuclide tech niques useful to biologists in general Although only a few ecological applications were evident in these early years ecologists were quick to see the opportunities available in their field In the United States major centers for such activities included Oak Ridge National Laboratory and the U S Atomic Energy Com mission s Savannah River Plant At Oak Ridge National Laboratory Dr Stanley I Auerbach director of ecological activities encouraged with remarkable suc cess the use of tracers by his associates Dr Eugene P Odum had the foresight to see that radionuclide tracers provided the means to solve many problems of interest to ecologists Consequently his research included some unique radio tracer applications at the Savannah River Plant In addition he encouraged others involved in ecological activities at the Savannah River Plant to do likewise Ecologists such as Dr Robert C Pendleton at the U S Atomic Energy Com mission s Hanford Works applied radionuclides in their research To these early investigators and to those who followed we owe the oppportunity to write this book Radioecological Techniques 3Island Press, 1982-03-31

Radioecological Concentration Processes Bertil Åberg, Frank P. Hungate, 2013-10-22 Radioecological Concentration Processes present the overall model for problems of environmental contamination in terms of system analysis This book discusses the major investigational approaches to study of environmental contamination with radioactivity Organized into 90 chapters this book starts with an overview of the results of the experimental investigations into the distribution of strontium in soils and the uptake of this nuclide by plants This text then presents the comparison of the distribution character in different soil types which shows clearly that ploughed soils differ from virgin soils by a more uniform and similar character of radioisotope distribution in them Other chapters consider the migration of 90Sr in the mostly podzolic and water logged soils of moderately northern latitudes of Russia The final chapter deals with the experiments with the shore crab Carcinus maenas which shows that the crab is able to regulate the zinc content of its body against changes in the zinc content of food or of surrounding water Biochemists will find this book useful Encyclopedia of Ecology Brian D. Fath, 2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced Written by an international team of leading experts this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field

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apply in the evaluation Nondestructive Characterization and Imaging of Wood Voichita Bucur, 2013-03-14 This book on the Nondestructive Characterization and Imaging of Wood by Professor Voichita Bucur is truly the most outstanding reference on the subject ever written Since the origins of mankind wood has played a key role in the history of humans and other living creatures ranging from provision of life from trees giving air heat light and food to nourish their bodies to structures to protect them from the elements Wood has also played a key role in one of the world's primary religions Nondestructive diagnostics methods have long found application in medical practice for examination of the human body in order to detect life threatening abnormalities and permit diagnosis to extend life Nondestructive testing has been used for many years to insure the safety of machinery air craft railroads tunnels buildings and many other structures Therefore it is timely for a treatise like the present one to be written describing how wood can be characterized without employing destructive test methods Since wood is so valuable to mankind it is important to know the latest methods to nondestructively characterize wood for all practical applications The Reptiles of South Carolina Jeffrey D. Camper, 2019-05-07 A comprehensive illustrated guide to the Palmetto State's native species of reptiles From the lowcountry coastal tidelands to the upstate Blue Ridge Mountains and everywhere in between South Carolina's varied landscapes and habitats are home to a fascinating and mysterious assortment of alligators turtles lizards and snakes The Reptiles of South Carolina a comprehensive illustrated guide to the Palmetto State includes seventy five native species of reptiles as well as introduced forms Jeffrey D Camper's accessible descriptions and intriguing details are designed to enlighten readers about this misunderstood and often maligned group of secretive and ecologically important animals Camper begins with a discussion of the state s mild climate and wide variety of natural habitats including forests plains sandhills wetlands and barrier islands The entry for each species provides a color picture detailed descriptions of external appearance variations in size and color taxonomic keys comparisons to similar species to aid in identification and natural history Camper also assesses the conservation status of each species and offers a detailed range map of where that species is known to occur in the state and another map showing its entire geographic range in the continental United States The Reptiles of South Carolina includes 92 color and 79 black and white illustrations a checklist by reptile family a helpful glossary and a short history of herpetology in the Palmetto State This authoritative reference will prove invaluable to students professional herpetologists conservationists ecologists biologists land managers and amateur naturalists alike A foreword is provided by J Whitfield Gibbons professor emeritus of ecology at the University of Georgia and former head of the environmental outreach and education program at the Savannah River Ecology Laboratory Current Bibliography of Epidemiology, 1972 **Selected References on** Environmental Quality as it Relates to Health ,1975 Energy Research Abstracts ,1983 A History of **Radioecology** Patrick C. Kangas, 2022-12-26 This book presents a history of radioecology from World War II through to the critical years of the Cold War finishing with a discussion of recent developments and future implications for the field Drawing

on a vast array of primary sources the book reviews synthesizes and discusses the implications of the ecological research supported by the Atomic Energy Commission AEC of the United States government from World War II to the early 1970s This was a critical period in the history of ecology characterized by a transition from the older largely descriptive studies of communities of plants and animals to the modern form of the science involving functional studies of energy flow and mineral cycling in ecosystems. This transition was in large part due to the development of radioecology which was a by product of the Cold War and the need to understand and predict the consequences of a nuclear war that was planned but has never occurred The book draws on important case studies such as the Pacific Proving Grounds the Nevada Test Site El Verde in Puerto Rico the Brookhaven National Laboratory and recent events such as the nuclear disasters at Chernobyl and Fukushima By revisiting studies and archived information from the Cold War era this book offers lessons from the history of radioecology to provide background and perspective for understanding possible present day impacts from issues of radiation risks associated with nuclear power generation and waste disposal Post Cold War developments in radioecology will be also reviewed and contrasted with the AEC supported ecology research for further perspectives This book will be of great interest to students and scholars of radioecology environmental pollution environmental technology bioscience and environmental Radioecology and the Restoration of Radioactive-Contaminated Sites F.F. Luykx, Martin J. Frissel, 2012-12-06 Most of the nuclear facilities built since the Second World War have ceased active operation and have been decommissioned Some of the sites are heavily contaminated with radioactive substances Correct and efficient action to mitigate the radiological consequences of such contamination will only be possible when the behaviour of radionuclides in the terrestrial environment is sufficiently well known Yet radioecologists often find it difficult to study the transfer of radioactivity in agricultural land and semi natural ecosystems because of the complexity and diversity of such environments The present book presents an analysis of all the factors that affect the behaviour of radionuclides as they move from their point of release through the environment and then enter the tissues of biota living in the ecosystems in particular plants and animals consumed by humans The course on which the book is based was held in a region that is heavily contaminated by radioactive discharges into the environment during nuclear weapons fabrication in the 1950s and 60s and due to a severe accidental release following the explosion of a rad waste tank in 1957 This allowed in situ training of the students The book s main emphasis is on specific radioecological problems in severely contaminated areas in the former Soviet Union the Southern Urals Trail the rivers Techa Isert Tobol Irtis Ob and the 30 km zone around Chernobyl Systems examined include soils arable and pasture land forests lakes and rivers Special attention is paid to the effects of radiation on natural ecosystems trees soil dwelling organisms and aquatic organisms Synergistic effects are also considered Short medium and long term countermeasures are discussed **Environmental Health Series** ,1968 **Guidelines to Radiological Health**, 1969 Radioecology R. J. Pentreath, 2021-08-12 An overview of the sources uses and effects of ionising radiation in the environment and their

consequences for life

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#### **Table of Contents Radioecological Techniques**

- 1. Understanding the eBook Radioecological Techniques
  - The Rise of Digital Reading Radioecological Techniques
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Radioecological Techniques
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Radioecological Techniques
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Radioecological Techniques
  - Personalized Recommendations
  - Radioecological Techniques User Reviews and Ratings
  - Radioecological Techniques and Bestseller Lists
- 5. Accessing Radioecological Techniques Free and Paid eBooks

- Radioecological Techniques Public Domain eBooks
- Radioecological Techniques eBook Subscription Services
- Radioecological Techniques Budget-Friendly Options
- 6. Navigating Radioecological Techniques eBook Formats
  - o ePub, PDF, MOBI, and More
  - Radioecological Techniques Compatibility with Devices
  - Radioecological Techniques Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Radioecological Techniques
  - Highlighting and Note-Taking Radioecological Techniques
  - Interactive Elements Radioecological Techniques
- 8. Staying Engaged with Radioecological Techniques
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Radioecological Techniques
- 9. Balancing eBooks and Physical Books Radioecological Techniques
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Radioecological Techniques
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Radioecological Techniques
  - Setting Reading Goals Radioecological Techniques
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Radioecological Techniques
  - Fact-Checking eBook Content of Radioecological Techniques
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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