

# Radioecological Techniques

Vincent Schultz  
and  
F. Ward Whicker

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## **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 techniques 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 Commission's Savannah River Plant At Oak Ridge National Laboratory Dr Stanley I Auerbach director of ecological activities encouraged with remarkable success 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 Commission's Hanford Works applied radionuclides in their research To these early investigators and to those who followed we owe the opportunity 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  $^{90}\text{Sr}$  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

Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non expert Available electronically on ScienceDirect shortly upon publication

**Freshwater and Terrestrial Radioecology** Alfred W. Klement,Vincent Schultz,1980 *Nuclear Science Abstracts* ,1976 *Radioecology: Lectures In Environmental Radioactivity* E Holm,1994-08-31 These lectures presented by experts from the Nordic countries are collected with the purpose of education in the field of environmental radioactivity The book may be used in university courses on eg health physics and environmental science Administrators and managers of environmental programmes may also find useful background information The book covers all important aspects of environmental radioactivity such as source terms atmospheric transport processes in aquatic and terrestrial systems radiochemistry and measurement techniques radioactivity in man modeling and assessment of absorbed doses The Nordic Committee for Nuclear Safety Research NKS organises joint research programmes such as the above lectures to strive for a better understanding in the Nordic countries of factors influencing nuclear safety radiation protection and emergency provisions

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 medi cal 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

**Turtle** Louise M. Pryke,2020-11-12 As ancient creatures that once shared the Earth with dinosaurs turtles have played a crucial role in maintaining healthy terrestrial and marine ecosystems for more than one hundred million years While it may not set records for speed on land the turtle is exceptional at distance swimming and deep diving and some are gifted with astounding longevity In human thought the animal s ties to creativity wisdom and warfare stretch back to the world s earliest written records In *Turtle* Louise M Pryke celebrates the slow and unassuming manner of

this doughty creature which provides a living model of endurance and efficiency In the increasingly fast paced world of the twenty first century it has never been more important to consider the natural and cultural history of this remarkable animal

Toxicology of Reptiles Susan C. M. Gardner,Eva Oberdorster,2016-04-19 Toxicology of Reptiles cohesively summarizes much of the cutting edge research taking place in fields such as reptilian endocrinology neurophysiology immunology and ecology It also addresses conservation needs along with the complications often associated with population studies The text is easy to synthesize and apply in the evaluation **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 *NASA Technical Translation* ,1966 **Current Bibliography of Epidemiology**

,1972 **Selected References on Environmental Quality as it Relates to Health** ,1975 **Current Ornithology**

Dennis M. Power,1991 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 history *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

## Enjoying the Melody of Term: An Psychological Symphony within **Radioecological Techniques**

In a global consumed by screens and the ceaseless chatter of quick connection, the melodic splendor and emotional symphony developed by the written term often disappear in to the background, eclipsed by the persistent sound and disturbances that permeate our lives. Nevertheless, set within the pages of **Radioecological Techniques** a charming fictional value brimming with fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, that charming masterpiece conducts visitors on a psychological trip, skillfully unraveling the concealed tunes and profound influence resonating within each carefully crafted phrase. Within the depths of the emotional analysis, we can explore the book is key harmonies, analyze their enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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