# Radioecological Techniques

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



# **Radioecological Techniques**

Jeffrey D. Camper

#### 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 nigues useful to biologists in general Although only a few ecological applications were evident in these early years ecologists were guick 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 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 NASA Technical Translation ,1966 Nuclear Science Radioecology: Lectures In Environmental Radioactivity E Holm, 1994-08-31 These lectures Abstracts ,1976 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 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 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

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