

Y. I. Sorokin

Radioisotopic Methods in **Hydrobiology**



Springer

Radioisotopic Methods In Hydrobiology

S Ashworth



Radioisotopic Methods In Hydrobiology:

Radioisotopic Methods in Hydrobiology Yuri I. Sorokin, 2012-12-06 Aquatic environments marine and freshwater basins are increasingly subject to anthropogenic stresses Likewise there is an increasing demand for better and more reliable methods for the monitoring and assessment of these large and important ecosystems and the interrelations between the physical and chemical features of water bodies The use of radioisotopic techniques offers a wide range of methodological possibilities because all biologically active compounds contain long living radioisotopes which make the analytical field and laboratory work possible without the precautions involved in direct radiation health hazards **Radioisotopic Methods in Hydrobiology** I. Sorokin, 1999-04 Written in a didactic way so as to stimulate thought and discussion this is a comprehensive description of all devices helpful in radioisotopic techniques Despite being exhaustive in its coverage this handbook will navigate researchers and students through the numerous techniques available to find those that are most suitable and reliable The author has 50 years experience in this field and so is able to offer evaluations and instructions for practical use The methods described are illustrated by tables and graphs with all the relevant results Nuclear Science Abstracts ,1972 **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 Polish Archives of Hydrobiology ,1975 *Fishery and Oceanography Translations* United States. Bureau of Commercial Fisheries, 1964 **Technical Translations** ,1965-07 **Sport Fishery Abstracts** ,1963 *Radioisotopes and Ionizing Radiations in Entomology* International Atomic Energy

Agency,1963 *Methods in Microbiology* John Robert Norris,1969 Nuclear Science Abstracts ,1972 The Black Sea
 I. Sorokin,2002 The Black Sea is the largest of the World meromictic basins those bodies of water characterized by a permanent halocline In meromictic basins close to sea coasts the halocline may form under the influence of saline sea water which penetrates via shallow inlets or is seeping through the sand bars Being more dense this water fills deeper layers This is the origin of the Black Sea and of numerous small meromictic estuarine lakes lagoons and fjords The Black Sea is the largest meromictic basin of this type and contains the greatest amount of anoxic water on the Planet The presence of its anoxic zone has had a drastic influence on its chemical conditions and biota The formation of its quasi permanent chemocline is the consequence of a constant inflow of saline Mediterranean water from the Sea of Marmara through the Bosphorus strait These waters are spreading within the deep strata of its basin while the salinity in its upper layer is freshened by river water and by inflow from the Sea of Azov The specific features of the Black Sea and its great economic importance stimulated intensive investigations which began in the late 18th century By now it is one of the best studied enclosed seas In spite of the existence of a voluminous literature and maybe because of it there is a growing need for a modern monographic book which opens the possibility to navigate around the enormous scientific material and its controversies Over 90% has been published in Russian or Romanian languages practically inaccessible to the Western scientific communities This monograph presents basic scientific knowledge on all aspects of the ecological state of the Basin united within a holistic analysis of its ecosystem The goal of the present book is to cover the demand for a modern monographic work of all knowledge about the Black Sea The author also wants to demonstrate in this book the power of technological humanity able to change catastrophically the ecosystem of a whole deep sea in only a couple of decades *The Effects of Radiation and Radioisotopes on the Life Processes: Index* ,1963 The Effects of Radiation and Radioisotopes on the Life Processes Charles M. Pierce,U.S. Atomic Energy Commission,1963 *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}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 **Fundamental and Applied Limnology** ,2007 *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 Subject Guide to Books in Print ,1971 *American Book Publishing Record* ,1999 **Oceanology** ,2007

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