

# Nordic Radioecology

## The Transfer of Radionuclides through Nordic Ecosystems to Man

# Nordic Radioecology The Transfer Of Radionuclides Through Nordic Ecosystems To Man

**DJ Losen**



## **Nordic Radioecology The Transfer Of Radionuclides Through Nordic Ecosystems To Man:**

Nordic Radioecology H. Dahlgaard, 1994-10-11 The present treatise is the final milestone in the radioecology programme RAD carried out from 1990 to 1993 under the Nordic Committee for Nuclear Safety Research NKS The book one of the few in its field to have achieved international publication is centred on the contamination of Nordic environments with radionuclides from the Chernobyl accident It contains 30 contributions mainly describing the flow of radiocaesium through aquatic agricultural forest and alpine ecosystems as well as quality assurance and doses to man A series of original papers on various aspects of Nordic post Chernobyl radioecology by leading Nordic scientists is also included along with terms units definitions indexes and an executive summary The volume will be invaluable to all scientists and professionals in radioecology radiation protection trace element cycling and environmental contamination It will also be relevant to general environmental management human contamination civil defence officials Freshwater and Estuarine Radioecology G. Desmet, 1997

Hardbound The Chernobyl accident drew attention to the difficulties of understanding the dynamics of radionuclide transport through the environment using older methods developed after the pseudo steady state pollution resulting after the weapons testing fallout More recent approaches which are reported in this book have incorporated both the dynamic aspects highlighted by the pulse Chernobyl input and the importance of improvement in models that can be brought about by constraining parameters on the basis of a knowledge of the fundamental physics chemistry biology and ecology of the ecosystems involved The papers within this volume include hydrodynamic models of suspended solids transport ion exchange interpretation of radionuclide sorption approaches applying a knowledge of membrane transport kinetics to the uptake of radionuclides by biota the effects of different ecological niches on the relative uptake of radionuclides by different species

**Metals, Metalloids and Radionuclides in the Baltic Sea Ecosystem** Piotr Szefer, 2002-01-30 This book presents in detail the state of knowledge of the distribution bioavailability biomagnification discrimination fate and sources of chemical pollutants metals metalloids radionuclides and nutrients in all compartments atmosphere water deposits biota of the Baltic environment Particular components of the Baltic ecosystem are considered as potential monitors of pollutants Budgets of chemical elements and the ecological status of the Baltic Sea in the past present and future are presented Estimates of health risks to man in respect to some toxic metals and radionuclides in fish and seafood are briefly discussed The content of the book makes possible the identification of gaps in our environmental knowledge of the Baltic Sea with certain sections establishing possible priorities key areas or strategies for future research **Health Impacts of Large Releases of**

**Radionuclides** John V. Lake, Gregory R. Bock, Gail Cardew, 2008-04-30 This up to the minute account examines how radionuclides affect human health It explores how radionuclides travel through various food chains and how they are transported throughout the terrestrial and aquatic environments **Nuclear and Radiochemistry** Karl Heinrich

Lieser, 2008-09-26 This handbook gives a complete and concise description of the up to date knowledge of nuclear and

radiochemistry and applications in the various fields of science I is based on teaching courses and on research for over 40 years The book is addressed to any researcher wishing sound knowledge about the properties of matter be it a chemist a physicist a medical doctor a mineralogist or a biologist They will all find it a valuable source of information about the principles and applications of nuclear and radiochemistry Research in radiochemistry includes Study of radioactive matter in nature investigation of radioactive transmutations by chemical methods chemistry of radioelements etc Applications include Radionuclides in geo and cosmochemistry dating by nuclear methods radioanalysis Mossbauer spectroscopy and related methods behaviour of natural and man made radionuclides in the environment dosimetry and radiation protection All subjects are presented clearly and comprehensibly and in logical sequence Detailed derivations of equations are avoided and relevant information is compiled in tables The recent edition of the multi coloured Karlsruhe Chart of the Nuclides is included Clearly a standard work by an author with extensive experience in research and teaching **Radionuclide**

**Contamination and Remediation Through Plants** Dharmendra Kumar Gupta, Clemens Walther, 2014-07-14 This book focuses on the mechanistic microscopic understanding of radionuclide uptake by plants in contaminated soils and potential use of phytoremediation The key features concern radionuclide toxicity in plants how the radioactive materials are absorbed by plants and how the plants cope with the toxic responses The respective chapters examine soil classification natural plant selection speciation of actinides kinetic modeling and case studies on cesium uptake after radiation accidents Radionuclide contaminants pose serious problems for biological systems due to their chemical toxicity and radiological effects The processes by which radionuclides can be incorporated into vegetation can either originate from activity interception by external plant surfaces either directly from the atmosphere or from resuspended material or through uptake of radionuclides via the root system Subsequent transfer of toxic elements to the human food chain is a concrete danger Therefore the molecular mechanisms and genetic basis of transport into and within plants needs to be understood for two reasons The effectiveness of radionuclide uptake into crop plants so called transfer coefficient is a prerequisite for the calculation of dose due to the food path On the other hand efficient radionuclide transfer into plants can be made use of for decontamination of land so called phytoremediation the direct use of living green plants for in situ removal of pollutants from the environment or to reduce their concentrations to harmless levels *Modelling radiocesium in lakes and coastal areas — new approaches for ecosystem modellers* Lars Håkanson, 2007-05-08 During the last 10 years there has been a revolution in ecosystem modelling The generality and predictive power of our models have increased in a way that was inconceivable 10 years ago This book describes a new generation of practically useful models that predict as well as one can measure if one measures well And yet they are driven by readily available driving variables and have a general structure that applies to most types of pollutants in aquatic systems The major reason for this development is in fact the Chernobyl accident Large quantities of radiocesium were released in April May 1986 as a pulse To follow the pulse of radiocesium through ecosystem pathways has meant that

important fluxes and mechanisms i.e ecosystem structures have been revealed It is important to stress that many of these new structures and equations are valid not just for radiocesium but for most types of contaminants e.g for metals nutrients and organics This means that the models methods of building and testing models and equations described in this book for lakes and coastal areas should be of great interest also to other ecosystem modellers This book will be of considerable interest to students in radioecology geosciences and biology environmental engineers consultants administrators and scientists interested in the spread biouptake and ecosystem effects of chemical pollutants in aquatic ecosystems

*Mushrooms Traded as Food. Vol II Sec. 1*, 2012      **Impact of Cesium on Plants and the Environment** Dharmendra K. Gupta, Clemens Walther, 2016-10-14 This book provides extensive and comprehensive knowledge to the researchers academics who are working in the field of cesium contaminated sites and the impact on plants This book is also helpful for graduate and undergraduate students who are specializing in radioecology or safe disposal of radioactive waste remediation of legacies and the impact on the environment Radiocesium  $^{137}\text{Cs}$  and  $^{134}\text{Cs}$  was released into the environment as a result of nuclear weapons testing in 1950s and 1960s  $1 \times 10^{18}$  Bq and later due to the Chernobyl accident in 1986  $8.5 \times 10^{16}$  Bq and Fukushima Daiichi Nuclear Power Plant in 2011  $1 \times 10^{17}$  Bq  $^{137}\text{Cs}$  is still of relevance due to its half life of 30 years The study of radioisotope  $^{137}\text{Cs}$  is important as production and emission rates are high compared to other radioisotopes due to high fission yield and high volatility This book contains original work and reviews on how cesium is released into the environment on translocation from soil to plants and further on to animals and into the human food chain Separate chapters focus on the effective half life of cesium in plants and on how different cultivars are responding in accumulation of cesium Other key chapters focus on cesium impact on single cells to higher plants and also on remediation measures as well as on basic mechanism used for remedial options and analysis of transfer factors The book rounds off by contributions on cesium uptake and translocation and its toxicity in plants after the Chernobyl and Fukushima accidents      *Nuclear and Radiochemistry* Jens-Volker Kratz, Karl Heinrich Lieser, 2013-08-15 The third edition of this classic in the field is completely updated and revised with approximately 30% new content so as to include the latest developments The handbook and ready reference comprehensively covers nuclear and radiochemistry in a well structured and readily accessible manner dealing with the theory and fundamentals in the first half followed by chapters devoted to such specific topics as nuclear energy and reactors radiotracers and radionuclides in the life sciences The result is a valuable resource for both newcomers as well as established scientists in the field      **Nuclear and Radiochemistry, 2 Volume Set** Jens-Volker Kratz, Karl Heinrich Lieser, 2013-12-04 The third edition of this classic in the field is completely updated and revised with approximately 30% new content so as to include the latest developments The handbook and ready reference comprehensively covers nuclear and radiochemistry in a well structured and readily accessible manner dealing with the theory and fundamentals in the first half followed by chapters devoted to such specific topics as nuclear energy and reactors radiotracers and radionuclides in the life sciences The result is

a valuable resource for both newcomers as well as established scientists in the field      Chernobyl Jim Smith, Nicholas A. Beresford, 2006-08-29 As the debate about the environmental cost of nuclear power and the issue of nuclear safety continues a comprehensive assessment of the Chernobyl accident its long term environmental consequences and solutions to the problems found is timely Although many books have been published which discuss the accident itself and the immediate emergency response in great detail none have dealt primarily with the environmental issues involved The authors provide a detailed review of the long term environmental consequences in a wide range of ecosystems many of which are only now becoming apparent They also highlight responses and counter measures to combat the environmental consequences and discuss health social psychological and economic impacts on the human population as well as the long term effects on biota

Probabilistic Accident Consequence Uncertainty Analysis: Main report, 1997      **Acid Atmospheric Deposition and its Effects on Terrestrial Ecosystems in The Netherlands** G.J. Heij, J.W. Erisman, 1997-05-09 The book begins with an overview of the research topics which were addressed in the three different phases of the Dutch Priority Program on Acidification DPPA executed between 1985 and 1994 This chapter is followed by a chapter which deals with the emissions of acidifying substances the concentrations and the deposition to forest and nature conservation areas Prognoses are given for the acid deposition in 2000 and 2010 the deposition in the countries surrounding the Netherlands is also mentioned The differences in the results of the DPPA II are analysed The third chapter deals with the effects of exposure and load on forests The chapter moves from small scale to large scale first the effects in laboratory scale studies are described then the effects in the field both at stand level and on a regional scale In addition the critical thresholds critical level of concentration and critical load of deposition are discussed The fourth chapter covers terrestrial ecosystems or parts thereof as well as weakly buffered surface waters springs and other streams Critical levels and loads are also discussed The most important results are given in chapter 5 In the appendices of the book so called umbrella theme reports on deposition stand modelling and effects on forests are presented which describe in more detail the scientific work performed in the third phase of the DPPA This book will be of interest to anyone involved in research related to acidification and eutrophication i e not only those who perform the research in the causal chain from emissions to effects but also policy makers and students      Food Security in the High North Kamrul Hossain, Lena Maria Nilsson, Thora Martina Herrmann, 2020-09-09 This book explores the challenges facing food security sustainability sovereignty and supply chains in the Arctic with a specific focus on Indigenous Peoples Offering multidisciplinary insights and with a particular focus on populations in the European High North region the book highlights the importance of accessible and sustainable traditional foods for the dietary needs of local and Indigenous Peoples It focuses on foods and natural products that are unique to this region and considers how they play a significant role towards food security and sovereignty The book captures the tremendous complexity facing populations here as they strive to maintain sustainable food systems both subsistent and commercial and regain sovereignty over traditional food production

policies A range of issues are explored including food contamination risks due to increasing human activities in the region such as mining to changing livelihoods and gender roles in the maintenance of traditional food security and sovereignty The book also considers processing methods that combine indigenous and traditional knowledge to convert the traditional foods that are harvested and hunted into local foods This book offers a broader understanding of food security and sovereignty and will be of interest to academics scholars and policy makers working in food studies geography and environmental studies agricultural studies sociology anthropology political science health studies and biology *The Diatoms* John P. Smol, Eugene F. Stoermer, 2010-09-30 This much revised and expanded edition provides a valuable and detailed summary of the many uses of diatoms in a wide range of applications in the environmental and earth sciences Particular emphasis is placed on the use of diatoms in analysing ecological problems related to climate change acidification eutrophication and other pollution issues The chapters are divided into sections for easy reference with separate sections covering indicators in different aquatic environments A final section explores diatom use in other fields of study such as forensics oil and gas exploration nanotechnology and archaeology Sixteen new chapters have been added since the first edition including introductory chapters on diatom biology and the numerical approaches used by diatomists The extensive glossary has also been expanded and now includes over 1 000 detailed entries which will help non specialists to use the book effectively **Behavior of**

**Radionuclides in the Environment II** Alexei Konoplev, Kenji Kato, Stepan N. Kalmykov, 2020-05-19 This is Volume II in a three volume set on the Behavior of Radionuclides in the Environment focusing on Chernobyl Now so many years after the Chernobyl accident new data is emerging and important new findings are being made The book reviews major research achievements concerning the behavior of Chernobyl derived radionuclides including their air transport and resuspension mobility and bioavailability in the soil water environment vertical and lateral migration in soils and sediments soil to plant and soil to animal transfer and water to aqueous biota transfer The long term dynamics of radionuclides in aquatic ecosystems are also discussed in particular the heavily contaminated cooling pond of the Chernobyl Nuclear Power Plant which is in the process of being decommissioned Lessons learned from long term research on the environmental behavior of radionuclides can help us understand the pathways of environmental contamination which in turn will allow us to improve methods for modeling and predicting the long term effects of pollution This book features a wealth of original data and findings many of which have never been published before or were not available internationally The contributing authors are experts from Ukraine Russia and Belarus with more than 30 years of experience investigating Chernobyl derived radionuclides in the environment The content presented here can help to predict the evolution of environmental contamination following a nuclear accident and specifically the Fukushima Dai ichi nuclear power plant accident

**Environmental Radioactivity and Emergency Preparedness** Mats Isaksson, Christopher L. Raaf, 2017-01-06 Radioactive sources such as nuclear power installations can pose a great threat to both humans and our environment How do

we measure model and regulate such threats Environmental Radioactivity and Emergency Preparedness addresses these topical questions and aims to plug the gap in the lack of comprehensive literature in this field The book explores how to deal with the threats posed by different radiological sources including those that are lost or hidden and the issues posed by the use of such sources It presents measurement methods and approaches to model and quantify the extent of threat and also presents strategies for emergency preparedness such as strategies for first responders and radiological triage in case an accident should happen Containing the latest recommendations and procedures from bodies such as the IAEA this book is an essential reference for both students and academicians studying radiation safety as well as for radiation protection experts in public bodies or in the industry

**Arctic One Health** Morten Tryland,2022-04-23 This multidisciplinary book discusses the manifold challenges arctic marine and terrestrial wildlife ecosystems and people face these times Major health threats caused by the consequences of climate change environmental pollution and increasing tourism in northern regions around the globe are explored The most common infectious diseases in wild and domesticated arctic animals are reviewed and the impact they could have on circumpolar ecosystems as well as on the lives of arctic people are profoundly discussed Moreover the book reviews arctic hunting herding and food conservation strategies and introduces veterinary medicine in remote indigenous communities Arctic One Health is authored by experts based in arctic regions spanning from North America over Europe to Asia to cover a broad range of topics and perspectives The book addresses researchers in Veterinary Medicine Ecology Microbiology and Anthropology The book contributes towards achieving the UN Sustainable Developmental Goals in particular SDG 15 Life on Land

**Social and Environmental Impacts in the North: Methods in Evaluation of Socio-Economic and Environmental Consequences of Mining and Energy Production in the Arctic and Sub-Arctic** Rasmus Ole Rasmussen,Natalia E. Koroleva,2012-12-06 Future development in the Arctic and Subarctic region requires careful attention to the possible consequences of the development activities themselves in relation to their environmental socioeconomic and cultural impacts A more thorough understanding of the impact of future activities however demands the dissemination and confrontation of results from different regions and different scientific traditions This requires scientific cooperation not only across disciplines but across border Primarily it requires both consensus and innovations in regard to methods This book confronts such differences in approaches and methods in relation to the analysis of socioeconomic and environmental consequences of large scale mineral and energy development activities in the Arctic and Subarctic establishing the common ground upon which future research activities can be based



## Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Nordic Radioecology The Transfer Of Radionuclides Through Nordic Ecosystems To Man**

In a global inundated with monitors and the cacophony of instantaneous interaction, the profound energy and mental resonance of verbal beauty often fade in to obscurity, eclipsed by the continuous barrage of noise and distractions. However, located within the musical pages of **Nordic Radioecology The Transfer Of Radionuclides Through Nordic Ecosystems To Man**, a fascinating perform of literary elegance that pulses with organic emotions, lies an unique trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, that exciting opus courses readers on an emotional odyssey, softly exposing the latent possible and profound affect embedded within the elaborate web of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is central themes, dissect its charming writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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serpentinization is a hydration and metamorphic transformation of ferromagnesian minerals such as olivine and pyroxene in

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of characteristic of or resembling a serpent as in form or movement having a winding course as a road sinuous shrewd wily or cunning noun a device on a harquebus lock for holding the

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serpentinite is a rock composed predominantly of one or more serpentine group minerals the name originating from the similarity of the texture of the rock to that of the skin of a snake serpentinite has been called serpentine or serpentine rock particularly in older geological texts and in wider cultural settings

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serpentine any of a group of hydrous magnesium rich silicate minerals the composition of these common rock forming minerals approximates  $\text{mg}_3\text{si}_2\text{o}_5\text{oh}_4$  serpentinite generally occurs in three polymorphs chrysotile a fibrous variety used as asbestos antigorite a variety occurring in either

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