RADIOACTIVITY IN THE ENVIRONMENT

Vlado Valković

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Ajay Kumar, Joginder Singh Panwar, Ana Maria Queijeiro López, Ravindra N Kharwar

Radioactivity in the Environment Vlado Valkovic, 2000-09-26 Numerous sources of ionizing radiation can lead to human exposure natural sources nuclear explosions nuclear power generation use of radiation in medical industrial and research purposes and radiation emitting consumer products Before assessing the radiation dose to a population one requires a precise knowledge of the activity of a number of radionuclides. The basis for the assessment of the dose to a population from a release of radioactivity to the environment the estimation of the potential clinical heath effects due to the dose received and ultimately the implementation of countermeasures to protect the population is the measurement of radioactive contamination in the environment after the release It is the purpose of this book to present the facts about the presence of radionuclides in the environment natural and man made There is no aspect of radioactivity which has marked the passing century not mentioned or discussed in this book Radioactivity in the environment, 2000 and the Environment Dharmendra K. Gupta, Soumya Chatterjee, Clemens Walther, 2019-10-24 This book examines the way that lead enters the biosphere and the subsequent environmental impact The contributing authors include international experts who provide methods for assessing and characterizing the ecological risk of lead contamination of soil and plants Information is provided on the consequences for human health as a result of lead pollution This book reveals that approximately 98% of stable lead in the atmosphere originates from human activities Lead in Plants and the Environment reports on methods for detecting measuring and assessing the concentration of lead in plants The authors provide a method for the measurement of 210Pb isotopes in plants This method can be applied extensively in different environmental settings not only as a way of revealing sources of lead but also as a way to monitor lead transport in plants and animals that ingest them The chapters include coverage on the following topics Lead bioavailability in the environment and its exposure and effects Radioanalytical methods for detecting and identifying trace concentrations of lead in the environment Lead contamination and its dynamics in soil plant systems Lead pollution monitoring and remediation through terrestrial plants in mesocosm constructed wetlands A review of phytoremediation of lead This book is a valuable resource to students academics researchers and environmental professionals doing field work on lead contamination throughout the world Environmental Management Handbook, Second Edition - Six Volume Set Sven Erik Jorgensen, Brian D. Fath, 2022-07-30 Bringing together a wealth of knowledge the Handbook of Environmental Management Second Edition gives a comprehensive overview of environmental problems their sources their assessment and their solutions Through in depth entries and a topical table of contents readers will quickly find answers to questions about pollution and management issues This six volume set is a reimagining of the award winning Encyclopedia of Environmental Management published in 2013 and features insights from more than 500 contributors all experts in their fields. The experience evidence methods and models used in studying environmental management is presented here in six stand alone volumes arranged along the major environmental systems

Features of the new edition The first handbook that demonstrates the key processes and provisions for enhancing environmental management Addresses new and cutting edge topics on ecosystem services resilience sustainability food energy water nexus socio ecological systems and more Provides an excellent basic knowledge on environmental systems explains how these systems function and offers strategies on how to best manage them Includes the most important problems and solutions facing environmental management today Managing Water Resources and Hydrological Systems Brian D. Fath, Sven Erik Jorgensen, 2020-07-29 Bringing together a wealth of knowledge Environmental Management Handbook Second Edition gives a comprehensive overview of environmental problems their sources their assessment and their solutions Through in depth entries and a topical table of contents readers will quickly find answers to questions about environmental problems and their corresponding management issues This six volume set is a reimagining of the award winning Encyclopedia of Environmental Management published in 2013 and features insights from more than 400 contributors all experts in their field The experience evidence methods and models used in studying environmental management are presented here in six stand alone volumes arranged along the major environmental systems Features The first handbook that demonstrates the key processes and provisions for enhancing environmental management Addresses new and cutting edge topics on ecosystem services resilience sustainability food energy water nexus socio ecological systems and more Provides an excellent basic knowledge on environmental systems explains how these systems function and offers strategies on how to best manage them Includes the most important problems and solutions facing environmental management today In this fourth volume Managing Water Resources and Hydrological Systems the reader is introduced to the general concepts and processes of the hydrosphere with its water resources and hydrological systems This volume serves as an excellent resource for finding basic knowledge on the hydrosphere systems and includes important problems and solutions that environmental managers face today This book practically demonstrates the key processes methods and models used in studying **Environment at Crossroads Challenges and** environmental management Radioactivity in the Environment ,2001 Green Solutions Arun Arya, 2020-07-17 The global environment has significantly changed due to a number of factors such as industrial pollution expansion of agricultural land way beyond the fringe forest zones destruction of virgin forests loss of quality agricultural lands due to soil erosion loss of global wildlife and biodiversity climate change global warming devastating forest fires floods draughts melting of glaciers to mention a few Human or anthropogenic impacts are in turn devastating the planet with our attention being shifted only to the shinning aspect of our civilizations The most alarming fact about this hidden factor is that they are all directly or indirectly impacted by human activities in some way or other The present work Environment at Crossroads deals with various environmental problems like climate change global warming food security bioremediation of waste oil spills and problems of heavy metal toxicity control strategies like use of gene therapy conservation of mangroves revival of river Vishwamitri and role of plant and animals in biodiversity conservation is

discussed Pulsed Electron Beam Curing of Polymer Coatings Karl Benjamin Richter, 2007 Microbial Life Under Stress: Biochemical, Genomic, Transcriptomic, Proteomic, Bioinformatics, Evolutionary Aspects and Biotechnological Applications of Poly-Extremophilic Bacteria, Volume II Davide Zannoni, Claudia P. Saavedra, Gloria Paz Levicán, Martina Cappelletti, 2022-06-29 Science and Technology of Separation Membranes Tadashi Uragami, 2017-02-10 Offers a comprehensive overview of membrane science and technology from a single source Written by a renowned author with more than 40 years experience in membrane science and technology and polymer science Covers all major current applications of membrane technology in two definitive volumes Includes academic analyses applications and practical problems for each existing membrane technology Includes novel applications such as membrane reactors hybrid systems and optical resolution as well as membrane fuel cells Handbook of Composites from Renewable Materials, Physico-Chemical and Mechanical Characterization Vijay Kumar Thakur, Manju Kumari Thakur, Michael R. Kessler, 2017-02-17 The Handbook of Composites From Renewable Materials comprises a set of 8 individual volumes that brings an interdisciplinary perspective to accomplish a more detailed understanding of the interplay between the synthesis structure characterization processing applications and performance of these advanced materials The handbook covers a multitude of natural polymers reinforcement fillers and biodegradable materials Together the 8 volumes total at least 5000 pages and offers a unique publication This 3rd volume of the Handbook is solely focused on the Physico Chemical and Mechanical Characterization of renewable materials Some of the important topics include but not limited to structural and biodegradation characterization of supramolecular PCL HAP nano composites different characterization of solid bio fillers based agricultural waste material poly ethylene terephthalate reinforced with hemp fibers poly lactic acid thermoplastic composites from renewable materials chitosan based composite materials fabrication and characterization the use of flax fiber reinforced polymer FFRP composites in the externally reinforced structures for seismic retrofitting monitored by transient thermography and optical techniques recycling and reuse of fiber reinforced polymer wastes in concrete composite materials analysis of damage in hybrid composites subjected to ballistic impacts biofiber reinforced acrylated epoxidized soybean oil AESO biocomposites biopolyamides and high performance natural fiber reinforced biocomposites impact of recycling on the mechanical and thermo mechanical properties of wood fiber based HDPE and PLA composites lignocellulosic fibers composites an overview biodiesel derived raw glycerol to value added products thermo mechanical characterization of sustainable structural composites novel pH sensitive composite hydrogel based on functionalized starch clay for the controlled release of amoxicillin preparation and characterization of biobased thermoset polymers from renewable resources influence of natural fillers size and shape into mechanical and barrier properties of biocomposites composite of biodegradable polymer blends of PCL PLLA and coconut fiber the effects of ionizing radiation packaging composite materials from renewable resources physicochemical properties of ash based geopolymer concrete a biopolymer derived from castor oil polyurethane natural

polymer based biomaterials physical and mechanical properties of polymer membranes from renewable resources

Environmental Health Perspectives ,2003-02 Groundwater Geochemistry Sughosh Madhav, Pardeep Singh, 2021-07-06 This book contains both practical and theoretical aspects of groundwater resources relating to geochemistry Focusing on recent research in groundwater resources this book helps readers to understand the hydrogeochemistry of groundwater resources Dealing primarily with the sources of ions in groundwater the book describes geogenic and anthropogenic input of ions into water Different organic inorganic and emerging contamination and salinity problems are described along with pollution related issues affecting groundwater New trends in groundwater contamination remediation measures are included which will be particularly useful to researchers working in the field of water conservation The book also contains diverse groundwater modelling examples enabling a better understanding of water related issues and their management Groundwater Geochemistry Pollution and Remediation offers the reader An understanding of the quantitative and qualitative challenges of groundwater resources An introduction to the environmental geochemistry of groundwater resources A survey of groundwater pollution related issues Recent trends in groundwater conservation and remediation Mathematical and statistical modeling related to groundwater resources Students lecturers and researchers working in the fields of hydrogeochemistry water pollution and groundwater will find Groundwater Geochemistry an essential companion

Microbial Inoculants Ajay Kumar, Joginder Singh Panwar, Ana Maria Queijeiro López, Ravindra N Kharwar, 2025-05-23 Microbial Inoculants Soil Dynamics and Nutrient Bioavailability is an essential volume in the Plant and Soil Microbiome series This book delves into the foundational and contemporary details regarding the use of microbial inoculants which are living organisms like fungi bacteria and microalgae sourced from soil plants water and organic materials Acting as biostimulants or biocontrol agents these inoculants offer an environmentally friendly alternative to synthetic fertilizers and pesticides playing a crucial role in soil conservation plant health and crop yield enhancement Apart from exploring the nexus between plant and soil the book also discusses the range of applications of microbial inoculants in agricultural and environmental practices It provides insights into how these microorganisms contribute to sustainable farming by enhancing nutrient bioavailability and protecting crops from diseases thus promoting better yield and overall plant vitality This volume is a valuable resource for those interested in advancing agricultural techniques through the utilization of natural biotic solutions Includes perspectives from soil and plant nutrient impact Presents developments in dynamic network modeling including new experimental designs and techniques Emphasizes the diverse function of plant associated microbiomes

Recent Researches in Metallurgical Engineering Mohammad Nusheh, Horacio Ahuett-Garza, Alejandro Arrambide, 2012-03-23 Metallurgical Engineering is the science and technology of producing processing and giving proper shape to metals and alloys and other Engineering Materials having desired properties through economically viable process Metallurgical Engineering has played a crucial role in the development of human civilization beginning with bronze age some

3000 years ago when tools and weapons were mostly produced from the metals and alloys This science has matured over millennia and still plays crucial role by supplying materials having suitable properties As the title Recent Researches in Metallurgical Engineering From Extraction to Forming implies this text blends new theories with practices covering a broad field that deals with all sorts of metal related areas including mineral processing extractive metallurgy heat treatment and Sustainable Materials for Food Packaging and Preservation Tabli Ghosh, Ruchir Privadarshi, Swarup Roy, 2024-09-20 Sustainable Materials for Food Packaging and Preservation Food Security and Sustainability discusses the recent trends and development of bio based sustainable materials focusing on their fabrication and application in food packaging and food preservation This book brings together fundamental information and the most recent advances in the characterization processing and modification of sustainable materials and their impact on food packaging and storage of food products for improving their shelf life Special attention is given to smart active and edible packaging and the utilization of nanoemulsion and nanoencapsulation in the food industry is also discussed In addition the book reviews the use of proteins polysaccharides and microbial and chemically derived materials for food preservation Discusses recent trends and advancements in the applications of sustainable materials in food packaging and preservation providing an overview of various sustainable materials such as agro based and microbial and chemically derived materials Covers fabrication techniques characterization and processing of various sustainable materials used for food packagingand preservation Includes a thorough discussion of the current sustainable solutions for extending the shelf life of food products in thepackaging process Packaging Technology and Engineering Dipak Kumar Sarkar, 2020-06-16 Covers chemistry physics engineering and therapeutic aspects of packaging universal to pharmaceutical medical and food applications This book covers the chemistry physics materials science engineering and therapeutic aspects of many different types of packaging materials emphasizing throughout the applicability of various aspects of packaging science and technology It also provides a simultaneous discussion of interrelated fields and addresses the universal issues within these fields application areas Intended as a technical reference and as a study aid it is relevant to anyone who studies or uses packaging or packaging materials Packaging Technology and Engineering Pharmaceutical Medical and Food Applications begins with an overview of the history of the topic It then offers chapters on the methods of obtaining raw materials the chemistry of polymeric and non polymeric packaging materials physico chemical quality parameters and the manufacturing of packaging Other topics look at additives use suppliers safety and environmental concerns regulation anti fraud activities new trends and the future of packaging technology The book also features numerous problems and worked solutions to aid student comprehension Covers packaging and packaging materials their properties and technologies Addresses the chemical engineering physics and chemistry of packaging materials and the individual requirements for food pharmaceutical and medical device packaging Includes current issues such as environmental concerns and sustainability recycling and after use

anti counterfeiting technology and packaging regulations and guidelines Packaging Technology and Engineering Pharmaceutical Medical and Food Applications will appeal to all packaging technologists scientists and engineers in industry and in regulatory agencies It is also an excellent book for advanced students studying packaging courses within pharmacy pharmaceutical sciences chemical sciences biomedical sciences medical sciences engineering product design and technology and food science technology Removal of Refractory Pollutants from Wastewater Treatment Plants Maulin P. Shah, 2021-10-08 This book discusses new and innovative trends and techniques in the removal of toxic and or refractory pollutants through various environmental biotechnological processes from wastewater both at the laboratory and industrial scale It focuses primarily on environmentally friendly technologies which respect the principles of sustainable development including the advanced trends in remediation through an approach of environmental biotechnological processes from either industrial or sewage wastewater Features Examines the fate and occurrence of refractory pollutants in wastewater treatment plants WWTPs and the potential approaches for their removal Highlights advanced remediation procedures involving various microbiological and biochemical processes Assesses and compares the potential application of numerous existing treatment techniques and introduces new emerging technologies Removal of Refractory Pollutants from Wastewater Treatment Plants is suitable for practicing engineers researchers water utility managers and students who seek an excellent introduction and basic knowledge in the principles of environmental bioremediation technologies Low Carbon Stabilization and Solidification of Hazardous Wastes Daniel C.W. Tsang, Lei Wang, 2021-09-24 Low Carbon Stabilization and Solidification of Hazardous Wastes details sustainable and low carbon treatments for addressing environmental pollution problems critically reviewing low carbon stabilization solidification technologies. This book presents the latest state of the art knowledge of low carbon stabilization solidification technologies to provide cost effective sustainable solutions for real life environmental problems related to hazardous wastes including contaminated sediments As stabilization solidification is one of the most widely used waste remediation methods for its versatility fast implementation and final treatment of hazardous waste treatment it is imperative that those working in this field follow the most recent developments Low Carbon Stabilization and Solidification of Hazardous Wastes is a necessary read for academics postgraduates researchers and engineers in the field of environmental science and engineering waste management and soil science who need to keep up to date with the most recent advances in low carbon technologies This audience will develop a better understanding of these low carbon mechanisms and advanced characterization technologies fostering the future development of low carbon technologies and the actualization of green and sustainable remediation Focuses on stabilization solidification for environmental remediation as one of the most widely used environmental remediation technologies in field scale applications Details the most advanced and up to date low carbon sustainable technologies necessary to guide future research and sustainable development Provides comprehensive coverage of low carbon solutions for treating a variety of hazardous wastes

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