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Mercury in precipitation in Indiana, January 2001December 2003 Mercury in the Grand Calumet River/Indiana Harbor Canal and Lake Michigan, Lake County, Indiana, August 2001 and May 2002 Reforming Regulatory Impact Analysis Toxic Effects of Mercury Mercury Mercury Fate and Transport in the Global Atmosphere Defense National Stockpile Center, Fort Belvoir, Mercury Management Ecosystem Responses to Mercury Contamination Global Mercury Assessment Mercury and the Everglades. A Synthesis and Model for Complex Ecosystem Restoration Sources of Mercury in Sediments, Water, and Fish of the Lakes of Whatcom County, Washington Mercury and methylmercury concentrations and loads in the Cache Creek basin, California, January 2000 through May 2001 Mercury in the Environment Mercury in the Tapajos Basin Impacts of Selenium on the Biogeochemical Cycles of Mercury in Terrestrial Ecosystems in Mercury Mining Areas Biogeochemical Cycle of Mercury in Reservoir Systems in Wujiang River Basin, Southwest China Seloc Mercury Outboards Coal Fired Flue Gas Mercury Emission Controls Environmental Risks of and Regulatory Response to Mercury Dental Fillings Mercury in Precipitation in Indiana, January 2004-December 2005 Air Pollution Modeling and its Application XVIII Abandoned Mines and Mercury in California Mercury Hazards to Living Organisms Assessing State and Local Regulations to Reduce Dental Mercury Emissions The Pigment Compendium Environmental Health Perspectives Fish and Diadromy in Europe (ecology, management, conservation) Minerals Yearbook The Astronomical Almanac Metal Sustainability Astronomical Phenomena The Sava River New publications of the U.S. Geological Survey Air Pollution Control Law Land-Use Change Impacts on Soil Processes Marine Pollution and Microbial Remediation Official Gazette of the United States Patent and Trademark Office U.S. Geological Survey Circular Mine Wastes Adolescents on the Autism Spectrum

Air Pollution Control Law provides explanation of the legislative provisions, regulatory requirements, and court decisions that comprise the body of air pollution control law. Mercury is widespread in our environment. Methylmercury, an organic form of mercury, can accumulate in the aquatic food chain and lead to high concentrations in predatory fish. When consumed by humans, contaminated fish represent a public health risk. Toxic Effects of Mercury intends to facilitate among its readers the understanding of the importance of mercury pollution in the environment and the health consequences associated with exposure to this metal. The knowledge on methylmercury (MeHg) toxicity collected over the years is undoubtedly robust creating an impression all that is to be learnt about this metal has already been accomplished. However, in large measure, past knowledge has merely laid the ground for interesting questions that have yet to be fully addressed and concepts have yet to be deciphered. One of my major goals was to make a valiant attempt to include state-of-the-art information on the mechanisms of mercury

toxicity, describing its effects on cultured cellular systems as well as in whole living organisms, starting from the lessons learned from the tragic events in Minamata Bay, Japan. A special focus of the book is on the neurotoxic effects of MeHg. An understanding at the cellular level is necessary to gather information on the structural and functional alterations induced by MeHg and how they possibly become unmasked and evident at the behavioral level, 32 chapters of the book have been organised having these considerations in mind. This book will provide state-of-the-art information to the graduate students training in toxicology, risk assessors, researchers and medical providers at large. It is aimed to bring the readers updated information on contemporary issues associated with exposure to methylmercury, from its effects on stem cells and neurons to population studies. It is a valuable resource for individuals interested in the public health effects and regulation of mercury. The report provides an excellent example of the implications of decisions in the risk assessment process for a larger audience and is written with the hope that the information will provide better understanding of the mercury problems which confront us. Mercury in precipitation was monitored during 2004--2005 at five locations in Indiana as part of the National Atmospheric Deposition Program-Mercury Deposition Network (NADP-MDN). Monitoring stations were operated at Roush Lake near Huntington, Clifty Falls State Park near Madison, Fort Harrison State Park near Indianapolis, Monroe County Regional Airport near Bloomington, and Indiana Dunes National Lakeshore near Porter. At these monitoring stations, precipitation amounts were measured continuously and weekly samples were collected for analysis of mercury by methods achieving detection limits as low as 0.05 ng/L (nanograms per liter). Wet deposition was computed as the product of mercury concentration and precipitation. The data were analyzed for seasonal patterns, temporal trends, and geographic differences. Marine environment is the largest habitat covering approximately 70% of the total earth surface. Oceans are the main regulatory agent of earth’s climate and harbour a huge diversity of living organisms. Marine environment provide a unique ecological niche to different microbes which play a significant role in nutrient recycling as well as various environmental activities. However with rapid industrialization, urbanisation, ship trafficking and mining activities enormous amounts of waste including heavy metals, hydrocarbons, chemicals, dyes, organic load, agriculture waste, pesticides, antifoulants (e.g. tributyltin) and bacterial pathogens have accumulated in marine/estuarine environments over several decades and pose a serious threat to marine macro and micro biota and humans and therefore require special attention. However some natural marine microbes are known to possess diverse resistance mechanisms and degradation pathways to variety of toxic pollutants and these unique characteristics of marine/estuarine bacteria proved to be an ideal tool in bioremediation of contaminated marine and estuarine environmental sites. Reclamation of marine polluted environments using marine microbes has been found to be effective, affordable and ecofriendly technological solution over conventional physical and chemical methods. Objective of this book is focus on marine pollution and application of marine microorganisms in cost effective and ecofriendly methods of pollution abatement. From a new perspective, namely focusing on the interaction of selenium and mercury, this thesis provides new insights into traditional research on biogeochemical cycles of mercury in soil-plant interaction and associated human exposure and risks. The subject of this thesis is both valuable and timely, providing essential information not only on selenium-mercury interaction in the soil-plant system but also on how to assess the combined benefits and risk of co-exposure to mercury and selenium. This work also sheds light on future aspects regarding prevention, remediation and risk management for environmental mercury contamination. Presenting high-quality papers published in leading international SCI journals such as Environmental Health Perspectives and Environmental Science & Technology and having been recognized with the Special Award of Presidential

Scholarship Award and Excellent Doctoral Dissertations Prize of the Chinese Academy of Sciences (CAS), this thesis offers a valuable resource for scientific communities, policy-makers and non-experts who are interested in this field. Dr. Hua Zhang works at the Norwegian Institute for Water Research (NIVA), Oslo, Norway. This volume provides a comprehensive overview of environmental aspects of the Sava River, which is the greatest tributary to the Danube River and the major drainage river system of South Eastern Europe. Hydroelectric power plants, river traffic, intensive agricultural activities, heavy industry and floods have considerable influence on the environment and biota in the basin. Summarizing the results that were gathered in the course of EU, bilateral and national projects, the book highlights the most important stressors and helps readers to better understand the impact of anthropogenic activities on the function of river basins. Topics include: transboundary water cooperation between the riparian countries; climate change projection, including its impact on flood hazards; evaluation of anthropogenic pollution sources; pollution of sediments, metal bioavailability and ecotoxicological and microbiological characterization of the river. The biological part also addresses quality aspects related to wildlife in river aquatic ecosystems (algae, macrophytes, zooplankton, macroinvertebrates and fish) and riparian ecosystems (amphibians, reptiles, birds and mammals). The general state of biodiversity and pressures caused by invasive aquatic species are also discussed. This book provides comprehensive, up-to-date overview of the accumulation of wastes at mine, including sulfidic mine wastes, mine water, tailings, cyanidation wastes of gold-silver ores, radioactive wastes of uranium ores, and wastes of phosphate and potash ores. The updated second edition includes new case studies; presents crucial aspects of mine wastes as scientific issues; reflects major developments and contemporary issues in mine waste science; additional figures; and an updated reference list. From the award-winning author of Autism Spectrum Disorders, comes Adolescents on the Autism Spectrum, a complete guide to the cognitive, emotional, social, and physical needs of preteens and teenagers with autistic disorders, ranging from the relatively mild Asperger's Syndrome to more severe ability impairment. Using clear examples, practical advice, and supportive insights, this book covers: Health risks such as seizures and depression Treatments, therapies, and teaching strategies Teaching skills to cope with puberty, self-care, and social skills Teenage emotions, sexuality, appropriate relationships, and dating Middle school, high school, and developing an Individual Educational Program Preparing for life after high school This report is a comprehensive global assessment of mercury and mercury compounds undertaken by the United Nations Environment Program (UNEP) in cooperation with members of the Inter-Organization Program for the Sound Management of Chemicals (IOMC). It covers recent authoritative reviews, deposition and transformation of mercury substances on a global scale, current production and use patterns of mercury as a global commodity, prevention and control technologies and practices, and future plans at the national, sub-regional or regional levels for controlling releases and limiting use and exposure. The report includes contributions from governments, intergovernmental and non-governmental organizations and the private sector. First Published in 2009. Routledge is an imprint of Taylor & Francis, an informa company. This book integrates 30 years of mercury research in the Florida Everglades to inform scientists and policy makers. The Everglades is an iconic ecosystem by virtue of its expanse; diversity of biota; and multiple international designations. Despite this, the Everglades has been subjected to multiple threats including: habitat loss, hydrologic alterations, invasive species and altered water quality. Less well recognized as a threat to Everglades human use and wildlife populations is the toxic metal, mercury. The first half of Volume II focuses on biogeochemistry and factors unique to the Everglades that make it extraordinarily susceptible to mercury methylation following its deposition: warm subtropical climate, shallow depth, high levels of dissolved organic matter, sulfate contamination,

nutrient enrichment and sediment redox conditions (for review of atmospheric mercury deposition significance, see Vol. I). The second half of Volume II answers the “so what” question – why biomagnification of the methylmercury produced in the Everglades is a threat to the health of top predators including humans. The results of the synthesis presented in Volume II suggest that the mercury problem in the Florida Everglades is one of the worst in the world due to its areal extent and the degree of risk to ecological receptors and humans. Mercury (Hg) is one of the most toxic heavy metals, harmful to both the environment and human health. Hg is released into the atmosphere from natural and anthropogenic sources and its emission control has caused much concern. This book introduces readers to Hg pollution from natural and anthropogenic sources and systematically describes coal-fired flue gas mercury emission control in industry, especially from coal-fired power stations. Mercury emission control theory and experimental research are demonstrated, including how elemental mercury is oxidized into oxidized mercury and the effect of flue gas contents on the mercury speciation transformation process. Mercury emission control methods, such as existing APCDs (air pollution control devices) at power stations, sorbent injection, additives in coal combustion and photo-catalytic methods are introduced in detail. Lab-scale, pilot-scale and full-scale experimental studies of sorbent injection conducted by the authors are presented systematically, helping researchers and engineers to understand how this approach reduces the mercury emissions in flue gas and to apply the methods in mercury emission control at coal-fired power stations. Readers will arrive at a comprehensive understanding of various mercury emission control methods that are suitable for industrial applications. The book is intended for scientists, researchers, engineers and graduate students in the fields of energy science and technology, environmental science and technology and chemical engineering. Complex and ever changing in its forms and functions, the element mercury follows a convoluted course through the environment and up the food chain. The process is complicated further by the fact that the difference between tolerable natural background levels and harmful effects in the environment is exceptionally small and still not completely understood. Written by recognized national and international authority on chemical risk assessment, Ronald Eisler, Mercury Hazards to Living Organisms explores the biological, physical, and chemical properties of mercury and its compounds. Rich in facts and information, the book provides a fundamental look at the issues. A synthesis of current scientific reviews, the book documents the significance of mercury concentrations in abiotic materials, plants, invertebrates, amphibians, reptiles, elasmobranch, fishes, and birds, as well as humans and other mammals. The author reviews historical and current uses and sources of mercury along with its physical, chemical, biological, and biochemical properties. He summarizes mercury transport and speciation processes and analytical techniques for mercury measurement. The book includes coverage of lethality to wildlife, domestic animals, and humans; administration routes and their effects; and sublethal effects such as cancers, birth defects, and chromosomal aberrations. Most of the diadromous fish of the world have decreased in distribution and abundance since the beginning of the twentieth century. They are now threatened, and important conservation issues arise. The causes of these trends vary among species and basins but regional human impact (damming, pollution, fisheries) and global change (climate) are suspected to be responsible for these difficulties. This book contains selected papers from an international symposium organised by the Diadfish network held in Bordeaux (France) in 2005. Readers will find up-to-date information on the ecology, ecotoxicology and physiology of several diadromous species (Atlantic salmon, shads, lampreys, eels) and this whole group in Europe. Main impacts are also documented and analysed in case studies, and solutions or remediation actions are presented. As rising levels of mercury in the environment pose an increasing threat of toxicity to humans and wildlife, several laws already call for industries to reduce mercury

emissions at the source. Ecosystem Responses to Mercury Contamination: Indicators of Change outlines the infrastructure and methods needed to measure, monitor, and regulate the concentration of mercury present in the environment. This book draws on the knowledge of forty international experts in the fields of atmospheric transport and deposition, mercury cycling in terrestrial and aquatic ecosystems, and mercury bioaccumulation in aquatic foodwebs and wildlife. The authors propose a set of indicators to use as a measure of changing mercury concentrations in the environment. Next, they recommend a monitoring strategy and offer guidance for determining systematic changes in concentration. Then the authors examine additional monitoring strategies to relate observed changes in concentration to regulatory controls on mercury emissions. The final chapter provides an integrated framework for establishing a national-scale program to monitor mercury concentrations in the environment. Ecosystem Responses to Mercury Contamination: Indicators of Change contains the information needed to design a large-scale monitoring program for mercury and to use the concentration data to create, enforce, and evaluate the progress of initiatives aimed at reducing mercury emissions. Updated edition -- Astronomical Phenomena for the Year 2018 is alswo available here: https://bookstore.gpo.gov/products/sku/008-054-00246-3 This small, useful booklet contains general interest material preprinted from The Astronomical Almanac. It is published jointly by the U.S. Naval Observatory and Her Majesty's Nautical Almanac Office two years in advance of its date. It includes such things as: •dates for Solar equinoxes, solstices, phases of the Moon •eclipse maps •dates for various planetary phenomena •visibility and magnitudes of the planets •dates for some religious and civil holidays •chronological eras and cycles •the equation of time and declination of the Sun •sunrise/set, moonrise/set times •the position of Polaris. Other related products: Almanacs and Navigation Guides can be found here:https://bookstore.gpo.gov/catalog/transportation-navigation/almanacs-nav... Light Lists product collection can be found here:https://bookstore.gpo.gov/catalog/transportation-navigation/almanacs-nav... USACE Navigational Charts can be found here:https://bookstore.gpo.gov/catalog/transportation-navigation/almanacs-nav... Other products produced by the U.S. Naval Observatory (USNO) can be found here: https://bookstore.gpo.gov/agency/927 This book presents an intensive study on the biogeochemical cycle of mercury in a river-reservoir system in Wujiang River Basin, the upper branch of the Yangtze River. Six reservoirs located in the mainstream of the Wujiang River and their corresponding inflow/outflow rivers were selected for inclusion in this study, which was conducted by researchers from the Institute of Geochemistry, Chinese Academy of Sciences. The concentration and distribution of Hg in reservoirs (the water column, sediment, sediment pore water), inflow/outflow rivers of reservoirs, and wet deposition in Wujiang River Basin were systematically investigated, and measurements were taken of the water/air exchange flux of gaseous elemental mercury (GEM). On the basis of the data gathered, a detailed mass balance of total mercury (THg) and methylmercury (MeHg) in the six reservoirs was developed. In addition, the book identifies the primary factors controlling Hg methylation in the river-reservoir system in Wujiang River Basin. The accumulation and bio-magnification of Hg species within food chains in reservoirs and human health risk of MeHg exposure through fish consumption are also included in this book. Mercury pollution and contamination are widespread, well documented, and continue to pose a public health concern in both developed and developing countries. In response to a growing need for understanding the cycling of this ubiquitous pollutant, the science of mercury has grown rapidly to include the fields of biogeochemistry, economics, sociology, public health, decision sciences, physics, global change, and mathematics. Only recently have scientists begun to establish a holistic approach to studying mercury pollution that integrates chemistry, biology, and human health sciences. Mercury in the Environment follows the process of mercury

cycling through the atmosphere, through terrestrial and aquatic food webs, and through human populations to develop a comprehensive perspective on this important environmental problem. This timely reference also provides recommendations on mercury remediation, risk communication, education, and monitoring. Mercury, primarily because of its existence and bioaccumulation as methylmercury in aquatic organisms, is a concern for the health of higher trophic level organisms, or to their consumers. This is the major factor driving current research in mercury globally and in environmental regulation, and is the driver for the current UNEP Global Partnership for Mercury Transport and Fate Research (UNEP F&T) initiative. The overall focus of the UNEP F&T report is to assess the relative importance of different processes/mechanisms affecting the transfer of mercury (Hg) from emission sources to aquatic and terrestrial receptors and provide possible source-receptor relationships. This transfer occurs through atmospheric transport, chemical transformations and subsequent deposition, and involves the intermittent recycling between reservoirs that occurs prior to ultimate removal of Hg from the atmosphere. Understanding the sources, the global Hg transport and fate, and the impact of human activity on the biosphere, requires improved knowledge of Hg movement and transformation in the atmosphere. An improved understanding of Hg emission sources, fate and transport is important if there is to be a focused and concerted effort to set priorities and goals for Hg emission management and reduction at the national, regional and global levels; and to develop and implement such policies and strategies. To achieve this, a series of coordinated scientific endeavors focused on the estimation of sources, measurement and validation of concentrations and processes, and modeling, coupled with interpretation of the results within a policy framework, is likely to be required. The sustainable use of natural resources is an important global challenge, and improved metal sustainability is a crucial goal for the 21st century in order to conserve the supply of critical metals and mitigate the environmental and health issues resulting from unrecovered metals. Metal Sustainability: Global Challenges, Consequences and Prospects discusses important topics and challenges associated with sustainability in metal life cycles, from mining ore to beneficiation processes, to product manufacture, to recovery from end-of-life materials, to environmental and health concerns resulting from generated waste. The broad perspective presented highlights the global interdependence of the many stages of metal life cycles. Economic issues are emphasized and relevant environmental, health, political, industrial and societal issues are discussed. The importance of applying green chemistry principles to metal sustainability is emphasized. Topics covered include: • Recycling and sustainable utilization of precious and specialty metals • Formal and informal recycling from electronic and other high-tech wastes • Global management of electronic wastes • Metal reuse and recycling in developing countries • Effects of toxic and other metal releases on the environment and human health • Effect on bacteria of toxic metal release • Selective recovery of platinum group metals and rare earth metals • Metal sustainability from a manufacturing perspective • Economic perspectives on sustainability, mineral development, and metal life cycles • Closing the Loop – Minerals Industry Issues The aim of this book is to improve awareness of the increasingly important role metals play in our high-tech society, the need to conserve our metal supply throughout the metal life cycle, the importance of improved metal recycling, and the effects that unhindered metal loss can have on the environment and on human health. This book examines the effects that land-use changes (notably agricultural intensification, logging, soil erosion, urbanisation and mining) have on soil characteristics and processes in tropical and savannah environments. It covers a range of geographical regions and environments as impacts of land use change are often site specific. The effects of land use change on various aspects of the soil ecosystem from both a chemical and biological perspective will be examined. Recent developments in air pollution modeling are explored as a series of

contributions from researchers at the forefront of their field. This book on air quality modeling and its applications is focused on local, urban, regional and intercontinental modeling, data assimilation and air quality forecasting, model assessment and validation, aerosol transformation, the relationship between air quality and human health and the effects of climate change on air quality. It consists of a series of papers that were presented at the 28th NATO/CCMS Conference on Air Pollution Modeling and its Application held in Leipzig, Germany, May 15-19, 2006. It is intended as reference material for students and professors interested in air pollution modeling at the graduate level as well as researchers and professionals involved in developing and utilizing air pollution models. *Discusses cutting-edge developments on air pollution modeling and air quality issues *Presents topical and highly relevant subjects to the air quality and modeling research community *Provides material that can be used to further improve air quality modeling and to inform the community about recent and novel developments in the field The Pigment Compendium Dictionary is a comprehensive information source for scientists, art historians, conservators and forensic specialists. Drawn together from extensive analytical research into the physical and chemical properties of pigments, this essential reference to pigment names and synonyms describes the inter-relationship of different names and terms. The Dictionary covers the field worldwide from pre-history to the present day, from rock art to interior decoration, from ethnography to contemporary art. Drawing on hundreds of hard-to-obtain documentary sources as well as modern scientific data each term is discussed in detail, giving both its context and composition. * Comprehensive list of pigment names and synonyms * Pigments used worldwide from pre-history to the present day * Contains information from hundreds of hard-to-obtain documentary sources

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