

Trace Elements in Coal and Coal Combustion Residues

Edited by
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H.D. Gesser



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Trace Elements in Coal and Coal Combustion Residues Robert F. Keefer, Kenneth S. Sajwan, 2020-10-25 *Trace Elements in Coal and Coal Combustion Residues* focuses on trace metal chemistry of coal and coal combustion residues. Special emphasis is placed on management of coal combustion residues in electric power plants and the influence of coal and associated residues on soils, plants, water, and animals. Topics covered include a brief summary of research sponsored by Electric Power Research Institute, environmental pollution from coal combustion plants in low rainfall regions, accumulation of trace elements in freshwater mussels near a power plant, testing to evaluate fossil fuel wastes by chemicals and isotopes, transport of metals from coal piles and ash impoundments, leachability and toxicity of metals in fly ash, and plant absorption of chemicals from ash. The book will be a useful reference for environmental and reclamation consultants, environmental engineers, toxicologists, environmental regulatory personnel, officials with electric power utilities and water treatment plants, and soil scientists.

Biogeochemistry of Trace Elements in Coal and Coal Combustion Byproducts Kenneth S. Sajwan, Ashok K. Alva, Robert F. Keefer, 2000-01-31 The research papers in this book present current knowledge of the sources, pathways, behavior, and effects of trace elements in soils, waters, plants, and animals. It is of interest to a variety of readers including public health and environmental professionals, consultants, and academicians.

Chemistry of Trace Elements in Fly Ash Kenneth S. Sajwan, Ashok K. Alva, Robert F. Keefer, 2013-03-09 The accumulation of large amounts of ash from fossil fuel combustion for electric power plant generation is becoming a major environmental concern in the United States. Furthermore, stringent environmental regulations mandated by the Environmental Protection Agency through the Clean Air Act, Clean Water Act, Resource Conservation and Recovery Act, as well as state and local environmental regulations, may result in even more ash production with subsequent contact with the environment. The concentrations of trace elements in coal residues are extremely variable and depend on the composition of the original coal, conditions during combustion, the efficiency of emission control devices, storage, and handling of byproducts, and climate. The research papers in this book were presented as a part of the Sixth International Conference on the Biogeochemistry of Trace Elements held at the University of Guelph, Ontario, Canada, from July 29 to August 2, 2001. The purpose of this conference was to present current knowledge on the sources, pathways, behavior, and effects of trace elements in soils, waters, plants, and animals. In addition, the book also includes invited research papers from scientists who have done significant research in the area of coal and coal combustion byproducts. All the research papers presented herein have been subjected to peer review.

Trace Elements in the Environment M.N.V. Prasad, Kenneth S. Sajwan, Ravi Naidu, 2005-10-14 New analytical techniques have enhanced current understanding of the behavior of trace and ultratrace elements in the biogeochemical cycling, chemical speciation, bioavailability, bioaccumulation, and as applied to the phytoremediation of contaminated soils. Addressing worldwide regulatory, scientific, and environmental issues, *Trace Elements in the Environment* presents a comprehensive overview of the current state of knowledge in this field.

Extended Abstracts, Fourth International Conference on the Biogeochemistry of Trace

Elements, 1997 *Applied Chemistry* Oleg Roussak, H. D. Gesser, 2012-09-26 The second edition of Gesser's classic *Applied Chemistry* includes updated versions of the original 16 chapters plus two new chapters on semiconductors and nanotechnology. This textbook introduces chemistry students to the applications of their field to engineering design and function across a wide range of subjects from fuels and polymers to electrochemistry and water treatment. Each chapter concludes with a reading list of relevant books and articles as well as a set of exercises which include problems that extend the topics beyond the text. Other supplements to the text include a laboratory section with step by step experiments and a solutions manual for instructors.

Problematic Soils and Geoenvironmental Concerns Madhavi Latha Gali, P. Raghuveer Rao, 2020-09-11 This volume comprises select papers presented during the Indian Geotechnical Conference 2018. This volume focuses on discussing the many challenges encountered in geoenvironmental engineering. The book covers sustainability aspects related to geotechnical engineering, problematic soils and ground improvement, use of geosynthetics and concepts of soil dynamics. The contents of this book will be useful to researchers and professionals working in geoenvironmental engineering and to policy makers interested in understanding geotechnical concerns related to sustainable development.

Ecology, Environment & Conservation, 2004 **Coal Production and Processing Technology** M.R. Riaz, Rajender Gupta, 2015-11-05 Coal Production and Processing Technology provides uniquely comprehensive coverage of the latest coal technologies used in everything from mining to greenhouse gas mitigation. Featuring contributions from experts in industry and academia, this book discusses coal geology, characterization, beneficiation, combustion, coking, gasification, and liquefaction.

Phytoremediation of Contaminated Soil and Water Norman Terry, Gary S. Banuelos, 2020-11-25 Phytoremediation is an exciting new technology that utilizes metal accumulating plants to rid soil of heavy metal and radionuclides. Hyperaccumulation plants are an appealing and economical alternative to current methods of soil recovery. Phytoremediation of Contaminated Soil and Water is the most thorough literary examination of the subject available today. The successful implementation of phytoremediation depends on identifying plant material that is well adapted to specific toxic sites. Gentle remediation is then applied in situ or at the contamination site. No soil excavation or transport is necessary. This severely contains the potential risk of the pollutants entering the food chain. And it's cost effective. The progress of modern man has created many sites contaminated with heavy metals. The affected land is toxic to plants and animals which creates considerable public interest in remediation. But the commonly used remedies are ex situ which poses an expensive dilemma and an even greater threat. Phytoremediation offers the prospect of a cheaper and healthier way to deal with this problem. Read *Phytoremediation of Contaminated Soil and Water* to learn just how far this burgeoning technology has developed.

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