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**Fine Particles Processing** P. Somasundaran 1980


**Public Health Engineering Abstracts** 1965

**Environmental Radioanalysis** 2011-08-26

**Constructing and Controlling Compaction of Earth Fills** Donald W. Shanklin 2000 Annotation

Presents 22 papers, from the July 1999
symposium, written on the use of various standardized methods for specifying and controlling the compaction of soil for engineered constructed earth fills. Perspectives include the historical background, current state-of-the-art practices, case histories of challenging situations, concerns regarding appropriate design parameters for compaction control, and new methods to evaluate soil compaction and related qualities. Annotation copyrighted by Book News, Inc., Portland, OR.


Long-Term Performance of Permeable Reactive Barriers K.E. Roehl 2005-04-27 While extensive research has been performed on many technological aspects of permeable reactive barriers and a number of contaminants have so far been successfully treated by PRB systems, long-term performance has not been extensively considered and little is known about the processes influencing long-term behaviour. This gap in our knowledge is all the more disadvantageous as design life has a decisive
influence on the economic viability of PRBs. The book describes methods for evaluation and enhancement of the long-term performance of PRB systems, especially of those targeting heavy metals, specifically uranium, and organic contaminants by sorption and/or precipitation mechanisms. Major topics in the book are: Selection and characterisation of suitable reactive materials Characterisation of the relevant contaminant attenuation processes Developing new contaminant-binding chemical compounds ("ligands") Accelerated testing methods to assess the long-term performance of the attenuation mechanisms in PRBs Evaluation of the influence of site characteristics on PRB performance Monitoring of existing and new field installations Coupling of electrokinetic techniques and PRB systems Large-scale laboratory and field tests and their results It addresses the long-term performance of PRBs, an important feature of this novel remediation technology, systematically. It deals extensively with heavy metal removal, with special emphasis on uranium. A number of case studies, experiences with large-scale modelling and test site experiments provide insight into the practical application of the results. This volume will contribute to the science underpinning groundwater remediation, and this will result in the improvement of quality of life and health and safety. * A systematic approach to investigating the long-term performance of permeable reactive barriers * Development of new contaminant-binding chemical compounds ("ligands"), accelerated testing methods to assess the long-term performance, and efficiency enhancing electrokinetic techniques * Extensive data and information on a Hungarian uranium mining facility; once a carefully kept secret of the Soviet Union

**The Terrestrial Environment, B**
P. Fritz
2013-10-22

Handbook of Environmental Isotope Geochemistry, Volume 2: The Terrestrial Environment, B focuses on the processes, methodologies, principles, and approaches
involved in isotope geochemistry. The selection first elaborates on mathematical models for the interpretation of environmental radioisotopes in groundwater systems; isotopes in cloud physics; and environmental isotopes in lake studies. Discussions focus on water balance studies of lakes, isotopic fractionations during evaporation of water, study of hailstone growth mechanisms by means of isotopic analyses, isotopic effects during growth of individual elements, and models and their hydrological significance. The text then takes a look at environmental isotope and anthropogenic tracers of lake sedimentation; stable isotope geochemistry of travertines; and isotope geochemistry of carbonates in the weathering zone. Topics include isotopic composition of carbonates in the weathering zone; reprecipitation processes in the weathering zone; isotopic composition of carbon and oxygen sources in the weathering zone; and geochemical conditions controlling travertine deposition. The manuscript also reviews radioactive noble gases in the terrestrial environment, isotope effects of nitrogen in the soil and biosphere, and oxygen and hydrogen isotope geochemistry of deep basin brines. The selection is a vital source of data for researchers interested in isotope geochemistry.

Transactions of the SPWLA ... Annual Logging Symposium 1994
Future Energy Conferences and Symposia 1988
Electronic Irradiation of Foods R. B. Miller 2006-12-26 Food irradiation, the use of ionizing radiation to destroy harmful biological organism in food, is a safe, proven process that has many useful applications. It has been endorsed by numerous health organizations and has now been approved for many applications by
governments around the world. Electronic Irradiation of Foods describes all the key aspects of electron accelerator technology in detail. It emphasizes the physical science and technology aspects of food irradiation using machine sources of ionizing radiation. The book provides significant technical depth for interested workers and present descriptive, introductory material that should help demystify technology for businessmen to make informed choices regarding important investments decisions. Introductory chapters summarize the effects of ionizing radiation on biological organisms and the organic compounds comprising foods, and give an overview of the food irradiation process. Subsequent chapters cover the details of the electron beam and x-ray energy deposition, electron accelerator technologies, beam scanning systems, material handling systems, shielding design, and process control considerations. Important appendices cover radiation dosimetry, induced radioactivity, and ozone generation.

Applied Mechanics Reviews 1967
Transactions of the American Nuclear Society American Nuclear Society 1997
Navy Civil Engineer 1961
Dictionary Catalog of the Department Library United States. Dept. of the Interior. Library
Nuclear Science Abstracts 1967

In order to fully utilise nucleonic measurement principles and their applications, it is important to have an understanding of the underlying physics. Radioisotope Gauges for Industrial Process Measurements combines theoretical background with practical experience in order to present an accessible overview of the use of radioisotopes in industry. This unique book explains the modes of operation of installed gauges and presents nucleonic methods relevant to measurement
problems. The first part of the book deals with radiation sources, the interaction of radiation with matter and radiation detectors. The second part explains the different measurement principles used for industrial gauges and the last part of the book covers industrial applications. This book also: Features a concise introduction to atomic and nuclear physics. Presents a range of nucleonic measurement methods and highlights their application to a variety of problems. Contains an overview of electronics, measurement accuracy, safety and standards. Considers processes and demands, design strategies and practical realisation of measurement systems. Provides many practical engineering examples. Offering a comprehensive coverage of engineering applications, this book is an essential tool for electrical, electronic and instrument engineers in the oil and chemicals processing sectors. It is also a valuable reference to graduate students and physicists involved in nuclear radiation measurement, medical applications, radiochemical research, environmental monitoring and chemical engineering.

**Library of Congress Subject Headings**

Library of Congress 2003

*Nuclear Engineering, Data Bases, Standards, and Numerical Analysis* Jacek Jędruch 1985


**Handbook on Radiation Probing, Gauging, Imaging and Analysis** E.M. Hussein 2006-05-05

The need for this book arose from my teaching, engineering, and - search experience in the non-power aspects of nuclear technology. The lack of a comprehensive textbook in industrial applications of radiation frustrated my students, who had to resort to a multitude of textbooks and research publications to familiarize themselves with the fundamental and practical aspects of radiation technology. As an engineer, I had to acquire the design aspects of radiation devices...
by trial-and-error, and often by accidental reading of a precious publication. As a researcher and a supervisor of graduate students, I found that the needed literature was either hard to find, or too scattered and diverse. More than once, I discovered that what appeared to be an exciting new idea was an old concept that was tried a few decades earlier during the golden era of “Atom for Peace”. I am hoping, therefore, that this book will serve as a single comprehensive reference source in a growing field that I expect will continue to expand. This book is directed to both neophytes and experts, and is written to combine the old and the new, the basic and the advanced, the simple and the complex. It is anticipated that this book will be of help in - viving older concepts, improving and expanding existing techniques and promoting the development of new ones.

*Nuclear Energy* Raymond L. Murray 2014-05-09

Nuclear Energy: An Introduction to the Concepts, Systems, and Applications of Nuclear Processes introduces the reader to the concepts, systems, and applications of nuclear processes. It provides a factual description of basic nuclear phenomena, as well as devices and processes that involve nuclear reactions. The problems and opportunities that are inherent in a nuclear age are also highlighted. Comprised of 27 chapters, this book begins with an overview of fundamental facts and principles, with emphasis on energy and states of matter, atoms and nuclei, and nuclear reactions. Radioactivity, radiation, and nuclear fusion and fission are then examined, along with the operating principles of radiation equipment, nuclear reactors, and other systems involving nuclear processes. Nuclear devices such as particle accelerators, isotope separators, and radiation detectors are described. Subsequent chapters focus on the relation between nuclear energy and peaceful applications. Finally, attention is directed to the subjects of radiation protection, beneficial usage of isotopes, and the connection between energy
resources and human progress. This monograph will be of interest to those who wish to know about the role of nuclear energy in society or to learn nuclear concepts for use in professional work.

**Catalog of Copyright Entries. Third Series**
Library of Congress. Copyright Office 1971

**Annual Report to Congress of the Atomic Energy Commission**
Atomic Energy Commission 1968

**Major Activities in the Atomic Energy Programs**
U.S. Atomic Energy Commission 1967

**Radioisotope Gauges for Industrial Process Measurements**
Geir Anton Johansen 2004-07-02

Detailing both the background physics and the industrial applications of gamma radiation for industrial measurement purposes, this text presents the basics of applied radiation physics in a manner suitable for non-physicists with an emphasis on industrial uses and applications.

**Non-Invasive Monitoring of Multiphase Flows**
J. Chaouki 1997-01-15

Non-Invasive Monitoring of Multiphase Flows is a result of the latest advances realized in non-invasive measurement of multiphase systems by means of various tomographic and velocimetric techniques. Written by experts on special topics within the realm of this subject, the book reviews in 15 chapters the theoretical background and the physics of the measurement process for each of a number of techniques. In addition, the mathematical modeling related to the measured property, such as in the image reconstitution problem for tomography, successful application of the techniques for measurement in various multiphase systems and their advantages and limitations are described. Features of this book:

- Comprehensive and Complete. Covers both theoretical and application viewpoints of noninvasive measuring techniques in multiphase systems. There is no book available on this subject in the field of multiphase flows.
- Versatile. Material is presented in such a way that the book can be used either for research or for teaching graduate students specializing in the
topic of multiphase flows - Awareness and Uniformity. The engineering community is made aware of advantages of these new techniques and they are presented in a uniform package. The editors strive to provide a comprehensive compendium of all the relevant information essential for practising engineers, consultants, university professors, graduate students and technicians who are involved in the study of multiphase flow phenomena. The book, although directed to the study of multiphase systems of interest to the chemical engineer, also provides valuable information for all other engineering disciplines that deal with multiphase systems. **Isotopes and Radiation Technology** 1969