

Radon Diffusion Coefficient In Radon Proof Membranes

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Radon-resistant Construction Techniques for New Residential Construction Mike Clarkin
1991-01-01

Provides homeowners and builders with a basic understanding of operating principles and installation details of radon-resistant new home construction. Includes: soil depressurization, mechanical barriers, site evaluation, planned ventilation, and much more. Illustrations. Also includes a report by the Environmental Protection Agency (EPA), "Home Buyer's and Seller's Guide to Radon."

Risk Science and Sustainability - Tom Beer
2003-09-30

1 AUK ISMAIL-ZADEH ,2, TOM BEER3 1 International Institute of Earthquake Prediction Theory and Mathematical Geophysics, Russian Academy of Sciences, Warshavskoye shosse 79-2, Moscow 113556, Russia; e-mail: aismail@mitp.ru 2 Geophysikalisches Institut, Universitt Karlsruhe, Hertzstr. 16, Karlsruhe 76187, Germany; e-mail: Alik.Ismail-Zadeh@gpi.uni-karlsruhe.de 3 CSIRO Environmental Risk Network, CSIRO Atmospheric Research, Aspendale, Vic. 3195 Australia; e-mail: Tom.Beer@csiro.au The world faces major threats to the sustainability of our planet. These threats are accompanied by the immediate dangers of natural and man-made disasters. Our vulnerability to them is greatly magnified with each passing year undermining

our ability to maintain a sustainable and productive world into the 21st Century and beyond. Both history and common sense teach us that science has a tremendous potential to find ways to cope with these threats. 1 The EUROSCIENCE working group "Science and Urgent Problems of Society" 2 and the IUGG Commission on Geophysical Risk and Sustainability were initiators of the EUROSCIENCE - IUGG Advanced Research Workshop "Science for Reduction of Risk and Sustainable Development of Society" sponsored by the NATO Science Program. The Workshop was held on 15-16 June 2002 in Budapest, Hungary. More than 40 participants from 17 countries took part in the Workshop. Talks and discussions addressed mainly the question of how science can help in reduction of risk and sustainable development of society.
Nuclear Science Abstracts - 1975-07

Chemical Abstracts - 1924

Radioactive Elements—Advances in Research and Application: 2012 Edition -
2012-12-26

Radioactive Elements—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Radioactive Elements. The editors have

built Radioactive Elements—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Radioactive Elements in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Radioactive Elements—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Reducing Environmental Cancer Risk - Suzanne H. Reuben 2010-10

Though overall cancer incidence and mortality have continued to decline in recent years, cancer continues to devastate the lives of far too many Americans. In 2009 alone, 1.5 million American men, women, and children were diagnosed with cancer, and 562,000 died from the disease. There is a growing body of evidence linking environmental exposures to cancer. The Pres. Cancer Panel dedicated its 2008&2009 activities to examining the impact of environmental factors on cancer risk. The Panel considered industrial, occupational, and agricultural exposures as well as exposures related to medical practice, military activities, modern lifestyles, and natural sources. This report presents the Panel's recommend. to mitigate or eliminate these barriers. Illus.

*Energy Research Abstracts*1994

Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number

indexes.

Radon and Its Decay Products in Indoor Air - William W. Nazaroff 1988-02-08

In recent years, the perception of indoor radon as a relatively minor health issue has been radically altered: observations in Sweden, Canada, and the U.S. have revealed the high incidence of elevated radon levels in ordinary houses and the extreme hazard of inhaling radon decay products. These findings have led to a wide range of activities and intensive research aimed at limiting human exposure to radon. This is one of the few books to provide a comprehensive, insightful analysis of the radon problem. Papers reflecting the most current research critically review all major aspects of this issue, each providing sufficient detail to be accessible to those who are technically trained but lack prior direct experience. Coverage includes the generation and migration of radon in source material, the physical and chemical behavior of radon, current evidence on the health effects and risk of exposure, and the strategic and tactical aspects of controlling exposures.

WHO Guidelines for Indoor Air Quality World Health Organization 2010

This book presents WHO guidelines for the protection of public health from risks due to a number of chemicals commonly present in indoor air. The substances considered in this review, i.e. benzene, carbon monoxide, formaldehyde, naphthalene, nitrogen dioxide, polycyclic aromatic hydrocarbons (especially benzo[a]pyrene), radon, trichloroethylene and tetrachloroethylene, have indoor sources, are known in respect of their hazardousness to health and are often found indoors in concentrations of health concern. The guidelines are targeted at public health professionals involved in preventing health risks of environmental exposures, as well as specialists and authorities involved in the design and use of buildings, indoor materials and products. They provide a scientific basis for legally enforceable standards.

Risk Assessment of Radon in Drinking Water - National Research Council 1999-06-24

The Safe Drinking Water Act directs the U.S. Environmental Protection Agency (EPA) to regulate the quality of drinking water, including

its concentration of radon, an acknowledged carcinogen. This book presents a valuable synthesis of information about the total inhalation and ingestion risks posed by radon in public drinking water, including comprehensive reviews of data on the transfer of radon from water to indoor air and on outdoor levels of radon in the United States. It also presents a new analysis of a biokinetic model developed to determine the risks posed by ingestion of radon and reviews inhalation risks and the carcinogenesis process. The volume includes scenarios for quantifying the reduction in health risk that might be achieved by a program to reduce public exposure to radon. Risk Assessment of Radon in Drinking Water, reflecting research and analysis mandated by 1996 amendments to the Safe Drinking Water Act, provides comment on a variety of methods to reduce radon entry into homes and to reduce the concentrations of radon in indoor air and in water. The models, analysis, and reviews of literature contained in this book are intended to provide information that EPA will need to set a new maximum contaminant level, as it is required to do in 2000.

Radon and Public Health Advisory Group on Ionising Radiation 2009

Cumulated Index Medicus - 1974

WHO Handbook on Indoor Radon - World Health Organization 2009

This handbook focuses on residential radon exposure from a public health point of view and provides detailed recommendations on reducing health risks from radon and sound policy options for preventing and mitigating radon exposure. The material in the handbook reflects the epidemiological evidence that indoor radon exposure is responsible for a substantial number of lung cancers in the general population. Information is provided on the selection of devices to measure radon levels and on procedures for the reliable measurement of these levels. Discussed also are control options for radon in new dwellings, radon reduction in existing dwellings as well as assessment of the costs and benefits of different radon prevention and remedial actions. Also covered are radon risk communication strategies and organization

of national radon programs.--Publisher's description.

A Citizen's Guide to Radon - 1992

Carbon Capture - Jennifer Wilcox 2012-03-28

This book approaches the energy science sub-field carbon capture with an interdisciplinary discussion based upon fundamental chemical concepts ranging from thermodynamics, combustion, kinetics, mass transfer, material properties, and the relationship between the chemistry and process of carbon capture technologies. Energy science itself is a broad field that spans many disciplines -- policy, mathematics, physical chemistry, chemical engineering, geology, materials science and mineralogy -- and the author has selected the material, as well as end-of-chapter problems and policy discussions, that provide the necessary tools to interested students.

Scientific and Technical Aerospace Reports - 1994

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

The Disappearing Spoon - Sam Kean 2010-07-12

From New York Times bestselling author Sam Kean comes incredible stories of science, history, finance, mythology, the arts, medicine, and more, as told by the Periodic Table. Why did Gandhi hate iodine (I, 53)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why is gallium (Ga, 31) the go-to element for laboratory pranksters?* The Periodic Table is a crowning scientific achievement, but it's also a treasure trove of adventure, betrayal, and obsession. These fascinating tales follow every element on the table as they play out their parts in human history, and in the lives of the (frequently) mad scientists who discovered them. THE DISAPPEARING SPOON masterfully fuses science with the classic lore of invention, investigation, and discovery--from the Big Bang through the end of time. *Though solid at room temperature, gallium is a moldable metal that melts at 84 degrees Fahrenheit. A classic science prank is to mold gallium spoons, serve them with tea, and watch guests recoil as their utensils disappear.

Protection of the Public Against Exposure Indoors Due to Radon and Other Natural Sources of Radiation - IAEA 2018-11-30

Tech Engineering News- 1958

Toxicological Profile for Radon - 1990

Lunar Settlements Haym Benaroya 2010-02-12
Bringing together some of the most recognized and influential researchers and scientists in various space-related disciplines, *Lunar Settlements* addresses the many issues that surround the permanent human return to the Moon. Numerous international contributors offer their insights into how certain technological, physiological, and psychological challenges must be met to make permanent lunar settlements possible. The book first looks to the past, covering the Apollo and Saturn legacies. In addition, former astronaut and U.S. Senator Harrison H. Schmitt discusses how to maintain deep space exploration and settlement. The book then discusses economic aspects, such as funding for lunar commerce, managing human resources, and commercial transportation logistics. After examining how cultural elements will fit into habitat design, the text explores the physiological, psychological, and ethical impact of living on a lunar settlement. It also describes the planning/technical requirements of lunar habitation, the design of both manned and modular lunar bases, and the protection of lunar habitats against meteoroids. Focusing on lunar soil mechanics, the book concludes with discussions on lunar concrete, terraforming, and using greenhouses for agricultural purposes. Drawing from the lunar experiences of the six Apollo landing missions to the many American and Soviet robotic missions to current space activities and research, this volume summarizes the problems, prospects, and practicality of enduring lunar settlements. It reflects the key disciplines, including engineering, physics, architecture, psychology, biology, and anthropology, that will play significant roles in establishing these settlements.

Introduction to Interval Computation - Gotz Alefeld 2012-12-02

This book is revised and expanded version of the original German text. The arrangement of the

material and the structure are essentially unchanged. All remarks in the Preface to the German Edition regarding naming conventions for formulas, theorems, lemmas, and definitions are still valid as are those concerning the arrangement and choice of material.

Sources, Effects and Risks of Ionizing Radiation, United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) 2016 Report - United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) 2017-04-25

This report assesses the levels and effects of exposure to ionizing radiation. Scientific findings underpin radiation risk evaluation and international protection standards. This report comprises a report with two underpinning scientific annexes. The first annex recapitulates and clarifies the philosophy of science as well as the scientific knowledge for attributing observed health effects in individuals and populations to radiation exposure, and distinguishes between that and inferring risk to individuals and populations from an exposure. The second annex reviews the latest thinking and approaches to quantifying the uncertainties in assessments of risk from radiation exposure, and illustrates these approaches with application to examples that are highly pertinent to radiation protection. *EPA Publications Bibliography* United States. Environmental Protection Agency 1997

Introduction to Diffusion Tensor Imaging - Susumu Mori 2013-08-02

The concepts behind diffusion tensor imaging (DTI) are commonly difficult to grasp, even for magnetic resonance physicists. To make matters worse, a many more complex higher-order methods have been proposed over the last few years to overcome the now well-known deficiencies of DTI. In *Introduction to Diffusion Tensor Imaging: And Higher Order Models*, these concepts are explained through extensive use of illustrations rather than equations to help readers gain a more intuitive understanding of the inner workings of these techniques. Emphasis is placed on the interpretation of DTI images and tractography results, the design of experiments, and the types of application studies that can be undertaken. Diffusion MRI is a very active field of research, and theories and

techniques are constantly evolving. To make sense of this constantly shifting landscape, there is a need for a textbook that explains the concepts behind how these techniques work in a way that is easy and intuitive to understand—Introduction to Diffusion Tensor Imaging fills this gap. Extensive use of illustrations to explain the concepts of diffusion tensor imaging and related methods Easy to understand, even without a background in physics Includes sections on image interpretation, experimental design, and applications Up-to-date information on more recent higher-order models, which are increasingly being used for clinical applications *WHO Guidelines for Indoor Air Quality* World Health Organization 2009

Microbial pollution is a key element of indoor air pollution. It is caused by hundreds of species of bacteria and fungi, in particular filamentous fungi (mould), growing indoors when sufficient moisture is available. This document provides a comprehensive review of the scientific evidence on health problems associated with building moisture and biological agents. The review concludes that the most important effects are increased prevalences of respiratory symptoms, allergies and asthma as well as perturbation of the immunological system. The document also summarizes the available information on the conditions that determine the presence of mould and measures to control their growth indoors. WHO guidelines for protecting public health are formulated on the basis of the review. The most important means for avoiding adverse health effects is the prevention (or minimization) of persistent dampness and microbial growth on interior surfaces and in building structures. [Ed.] *Pozzolanic and Cementitious Microsilica* M. Malhotra 2014-04-21

This series will present twenty short, sharply-focused tracts, each one covering one of the many aspects of concrete technology: materials, design, construction, testing, and other significant aspects. Volume 1 provides a complete overview of the mineral admixtures used in concrete, including silica fume, slag, rice-husk ash, fly ash, and natural pozzolans. This book will include the mineral and chemical composition of the admixtures, their chemical reactions with cement and as a method of

recycling.

Management of Indoor Air Quality Marzenna R. Dudzinska 2011-06-07

Due to changes in lifestyle, people spend more time indoors. This refers not only to the time spent at home and at office premises, but also in shopping malls, recreation centers and transport vehicles. Concentrations of many pollutants are higher indoors than they are outdoors. Consequently, the indoor environment has a bigger impact on human health

Recent Trends in Wave Mechanics and Vibrations - S. Chakraverty 2019-11-12

This book consists of select proceedings of the National Conference on Wave Mechanics and Vibrations (WMVC 2018). It covers recent developments and cutting-edge methods in wave mechanics and vibrations applied to a wide range of engineering problems. The book presents analytical and computational studies in structural mechanics, seismology and earthquake engineering, mechanical engineering, aeronautics, robotics and nuclear engineering among others. This book can be useful for students, researchers, and professionals interested in the wide-ranging applications of wave mechanics and vibrations. *How to Perform Radon Inspections* Nick Gromicko 2015-08-14

Multi-language Glossary on Natural Disasters - Kenzo Toki 1993

Contains 3,200 words on natural disasters that have been selected and are translated into Japanese, Spanish, French, Chinese and English.

Barrier Polymers and Structures - American Chemical Society. Meeting 1990

This volume provides a comprehensive treatment of the state of science and technology in the area of barrier polymers and barrier structures. Among the topics covered in its 20 chapters are structure-property relationships of Saran materials and nylons; approaches to engineering around the sensitivity of barrier polymers to humidity; characterization of sorption kinetics in several glassy polymers for a broad spectrum of penetrants; complex barrier structures; and flavor scalping. It presents fundamental principles along with complementing discussions of applications of these principles.

Health Risks of Radon and Other Internally Deposited Alpha-Emitters - National Research Council 1988-02-01

This book describes hazards from radon progeny and other alpha-emitters that humans may inhale or ingest from their environment. In their analysis, the authors summarize in one document clinical and epidemiological evidence, the results of animal studies, research on alpha-particle damage at the cellular level, metabolic pathways for internal alpha-emitters, dosimetry and microdosimetry of radionuclides deposited in specific tissues, and the chemical toxicity of some low-specific-activity alpha-emitters. Techniques for estimating the risks to humans posed by radon and other internally deposited alpha-emitters are offered, along with a discussion of formulas, models, methods, and the level of uncertainty inherent in the risk estimates.

Colloid Journal of the Russian Academy of Sciences - 1996

EPA Publications Bibliography - 1997

Random Fields - Erik Vanmarcke 2010
Random variation is a fact of life that provides substance to a wide range of problems in the sciences, engineering, and economics. There is a growing need in diverse disciplines to model complex patterns of variation and interdependence using random fields, as both deterministic treatment and conventional statistics are often insufficient. An ideal random field model will capture key features of complex random phenomena in terms of a minimum number of physically meaningful and experimentally accessible parameters. This

volume, a revised and expanded edition of an acclaimed book first published by the M I T Press, offers a synthesis of methods to describe and analyze and, where appropriate, predict and control random fields. There is much new material, covering both theory and applications, notably on a class of probability distributions derived from quantum mechanics, relevant to stochastic modeling in fields such as cosmology, biology and system reliability, and on discrete-unit or agent-based random processes. *Random Fields* is self-contained and unified in presentation. The first edition was found, in a review in EOS (American Geophysical Union) to be "both technically interesting and a pleasure to read" the presentation is clear and the book should be useful to almost anyone who uses random processes to solve problems in engineering or science and (there is) continued emphasis on describing the mathematics in physical terms.?

Science Abstracts - 1985

Radiation and Health - Thormod Henriksen 2002-09-05

Radiation and the effects of radioactivity have been known for more than 100 years. International research spanning this period has yielded a great deal of information about radiation and its biological effects and this activity has resulted in the discovery of many applications in medicine and industry including cancer therapy, medical diagnostics

INIS Atomindex - 1995

Phase II - Title I Engineering Assessment of Inactive Uranium Mill Tailings, Gunnison Site, Gunnison, Colorado - 1977