



Radiation Safety Problems in the Caspian Region

Edited by

Mohammed K. Zaidi and
Islam Mustafaev

NATO Science Series

Radiation Safety Problems In The Caspian Region

Soon Heung Chang



Radiation Safety Problems In The Caspian Region:

Radiation Safety Problems in the Caspian Region Mohammed K. Zaidi, Islam Mustafaev, 2006-03-01 Senior scientists from neighboring and other NATO countries joined their efforts to help this region to get to know their problems discussed their solutions and how they can be helped out Distinguished experts described how they had succeeded in developing the solutions to such problem in their countries

Radiation Safety Problems in the Caspian Region Mohammed K. Zaidi, Islam Mustafaev, 2004-09-29 Senior scientists from neighboring and other NATO countries joined their efforts to help this region to get to know their problems discussed their solutions and how they can be helped out Distinguished experts described how they had succeeded in developing the solutions to such problem in their countries

Environmental Security and Environmental Management: The Role of Risk Assessment Benoit Morel, Igor Linkov, 2007-05-22 The concept of environmental security has emerged as one basis for understanding international conflicts This phrase can mean a variety of things It can signify security issues stemming from environmental concerns or conflicting needs or it can mean that the environment is treated as a resource for the long term and the question is what should be done today to preserve the quality of the environment in the future In the same way that energy security is about ensuring access to energy for the long run it can also mean that pressing environmental concerns create a situation where different countries and communities are forced to collaboratively design a unified response even if cooperation is not generally in the logic of their relations Over the last several years the authors of this book and their colleagues have tried to demonstrate the power of risk assessment and decision analysis as valuable tools that decision makers should use for a broad range of environmental problems including environmental security Risk analysis is almost more a state of mind or a way of looking at problems than it is a kind of algorithm or a set of recipes It projects a kind of rationality on problems and forces a certain degree of quantitative rigor as opposed to the all too common tendency of making environmental recommendations based on anecdotal evidence

The Caspian Sea Encyclopedia Igor S. Zonn, Aleksey N Kosarev, Michael Glantz, Andrey G. Kostianoy, 2010-05-26 The Caspian Sea Encyclopedia is the second one in the new series of encyclopedias about the seas of the former Soviet Union published by Springer Verlag The first volume The Aral Sea Encyclopedia was published by Springer in 2009 The series will be continued by The Black Sea Encyclopedia in 2010 Today the Caspian Sea is known to readers thanks to its oil and gas resources sturgeon and caviar significant sea level variations socio economic and political problems The Caucasus and Central Asia http://eurodialogue.org/les/fckeditor/les/Caspian_s_map2.png Introduction For more than 250 years the Caspian Sea was shared by two states Russia the Soviet Union and Persia Iran After the disintegration of the USSR in 1992 the new independent states of Azerbaijan Turkmenistan and Kazakhstan have radically changed the political and economic situation in the region In addition to Russia and Iran who had determined the situation on the Caspian for a long period Azerbaijan Turkmenistan and Kazakhstan are now interested parties beginning a new stage in the historical development of the Caspian

region This increase in the number of the Caspian legal entities from two to ve has given rise to a whole tangle of geopolitical economic international legal ethnic and environmental problems each of which demands its own approach and settlement mechanism

Nuclear Radioactive Materials in the Oil and Gas Industry Khalid Alnabhani,Faisal Khan,2019-08-31 Nuclear Radioactive Materials in the Oil and Gas Industry comprehensively discusses the TENORMs generated from various types of oil and gas processes and their associated adverse human health effects effective TENORM waste management strategies and the quantitative risk analysis The book thoroughly investigates current knowledge addressing the three main gaps identified in available studies 1 Exposure to radioactivity 2 High volume waste as a source of radiation exposure and 3 A lack of uniform international safety regulations This book offers researchers scientists and graduate and undergraduate students a comprehensive and well researched reference that covers fundamental concepts problem identification and solutions development It is an ideal comprehensive guideline for professionals involved in the oil and gas and nuclear industries who are concerned about radiological issues

Environmental Monitoring at a Former Uranium Milling Site Kairat Kuterbekov,2018-09-10 This book presents a comprehensive study of the environmental situation prevailing in the areas located near the Koshkar Ata Kazakhstan tailings dump and the development of rehabilitation measures taking into account the area s soil and climatic features Given their impact on the local population s health rehabilitation activities and their monitoring are vital for countries where nuclear power technologies are developed and where uranium mining industry wastes exist Book analyzes the negative influences of the tailings on soil and vegetation cover on near ground atmospheric layers and groundwater Based on radiometric field and laboratory analytical research methods it presents quantitative information on the levels of pollution of the environment by radionuclides and chemical toxicants and includes the results of constant monitoring of dust from radioactive and toxic wastes in the area The book also offers recommendations for technical solutions for reclaiming radioactive tailing ponds as well as for the development of disposal sites for radioactive waste in the tailing ponds based on effective rehabilitation technologies developed at two control sites The study attracted considerable interest from the Republic of Kazakhstan s state authorities and public organizations and raised awareness of the need for rehabilitation measures at the KOSHKAR ATA tailing pond The monograph is intended for specialists in the field of environmental protection and radiation ecology as well as senior undergraduate and graduate students doctoral students and young scientists This publication is recommended by the Academic Council of the L N Gumilyov Eurasian National University

Environmental Security and Public Safety Wolfgang Spyra,Michael Katzsch,2007-03-31 The end of the Cold War paved the way to a substantial demilitarization and conversion but has left many open issues Former military installations military training areas and huge quantities of unserviceable ammunition and equipment pose a severe threat to the environment of both NATO and Partner countries This volume includes the perspectives and conversion strategies of both Western and Eastern states

TENR - Technologically Enhanced Natural Radiation Anselmo Salles Paschoa,F.

Steinhausler,2009-12-31 This book on TENR discusses the basic Physics and Chemistry principles of natural radiation The current knowledge of the biological effects of natural radiation is summarized A wide variety of topics from cosmic radiation to atmospheric terrestrial and aquatic radiation is addressed including radon thoron and depleted uranium Issues like terrorism and geochronology using natural radiation are also examined Comprehensive global TENR data assembly Critical assessment of the significant radiological impact of TENR on man and the environment as compared to radiological impact from man made sources in nuclear technology and nuclear medicine Illustration of the importance of TENR for the future conceptual development of radiation protection

Nuclear Power Plants Soon Heung Chang,2012-03-21 This book covers various topics from thermal hydraulic analysis to the safety analysis of nuclear power plant It does not focus only on current power plant issues Instead it aims to address the challenging ideas that can be implemented in and used for the development of future nuclear power plants This book will take the readers into the world of innovative research and development of future plants Find your interests inside this book

New Techniques for the Detection of Nuclear and Radioactive Agents Gul Asiye Aycik,2009-02-17 Nuclear and radioactive agents are considerable concerns especially after the early 1990s and more attention has been focused on the radiation detection technologies This book comprises the selected presentations of NATO Advanced Training Course held 26 30 May 2008 in Mugla Turkey The contributions represent a wide range of documents related to control monitoring and measurement methods of nuclear radioactive isotopes and agents for both fundamental and applied works dealing with their use for different purposes This book presents environmental data from many locations of different countries and also contains the contributions in the detection monitoring programs of some authors from CIS countries The basic goal of this book is to deal with recent developments and applications of environmental monitoring and measurement techniques of environmental radionuclides and nuclear agents as well as the auxiliary techniques The many recent examples contributed by authors will be useful in monitoring measurement studies of radioactive nuclear agents in the present environment and can help not only in carrying out outdoor and laboratory experiments but also in protection of possible sources of radionuclides and nuclear agents Especially the contributions of experts and specialists involved in this book assured the highest level of knowledge in the field of techniques for the detection of radioactive and nuclear agents

DOE this Month ,2003 **Uranium, Mining and Hydrogeology** Broder J. Merkel,Andrea Hasche-Berger,2008-09-30 Subject of the book is Uranium and its migration in aquatic environments The following subjects are emphasised Uranium mining Phosphate mining mine closure and remediation Uranium in groundwater and in bedrock biogeochemistry of Uranium environmental behavior and modeling Particular results from the leading edge of international research are presented

Medical Geology Olle Selinus,Robert B. Finkelman,Jose A. Centeno,2010-06-27 Medical Geology is a rapidly growing field concerned with the relationship between natural geological factors and human and animal health as well as with improving our understanding of the influence of environmental factors on the geographical

distribution of health problems This book brings together the work of geoscientists and medical public health researchers which addresses health problems caused or exacerbated by geological materials rocks minerals atmospheric dust and water and processes including volcanic eruptions and earthquakes Among the environmental health problems discussed in this book are exposure to toxic levels of trace essential and non essential elements such as arsenic and mercury trace element deficiencies exposure to natural dusts and to radioactivity naturally occurring organic compounds in drinking water volcanic emissions etc The text also deals with the many health benefits of geologic materials and processes This wide ranging volume covers issues in medical geology all over the world with each author covering their respective region It provides examples from different continents as well as a state of the art review of the latest developments in the discipline The authors are all recognized geoscientific and medical experts working in the field The book is written for a wide variety of specialists from geologists geochemists pathologists and medical doctors to veterinarians and biologists

Climate Change and its Effects on Water Resources Alper Baba,Gökmen Tayfur,Orhan Gündüz,Ken W.F. Howard,Michael J. Friedel,Antonio Chambel,2011-05-29 National and global security can be assessed in many ways but one underlying factor for all humanity is access to reliable sources of water for drinking sanitation food production and manufacturing industry In many parts of the world population growth and an escalating demand for water already threaten the sustainable management of available water supplies Global warming climate change and rising sea level are expected to intensify the resource sustainability issue in many water stressed regions of the world by reducing the annual supply of renewable fresh water and promoting the intrusion of saline water into aquifers along sea coasts where 50% of the global population reside Pro active resource management decisions are required but such efforts would be futile unless reliable predictions can be made about the impact of the changing global conditions on the water cycle and the quality and availability of critical water reserves Addressing this wide spectrum of issues a team of expert authors discusses here the impacts of climate change on the global water resources the long term resource management goals at global and local scales the data requirements and the scientific and technical advances necessary to mitigate the associated impacts

Wastewater Reuse - Risk Assessment, Decision-Making and Environmental Security Mohammed K. Zaidi,2007-05-23 This North Atlantic Treaty Organization NATO Advanced Research Workshop ARW was devoted to Wastewater Reuse Risk Assessment Decision Making and Environmental Security held in Istanbul Turkey at the Hotel Villa Suites Taksim during October 12 16 2006 More than 100 scientists had requested to participate but only 63 could attend the meeting representing 20 countries Azerbaijan Canada Czech Republic Egypt Greece Italy Israel Jordan Kyrgyzstan Lithuania Portugal Romania Spain The Netherlands Tunisia Turkey Turkmenistan Ukraine United States of America and Uzbekistan 48 papers and 10 posters were presented only 45 research papers were selected and put in this proceedings manual Other papers although they had good information could not be included due to poor data not related to the topic or failed to meet the deadline You may feel some difficulty in understanding some of the

papers due to the fact that they were initially written in presenter's home language and then translated into English by nonscientific people who have very little knowledge or interest in putting correct scientific terms. Financial support came from the NATO Program for Security through Science Public Diplomacy Division and sponsored by the Society of Risk Analysis SRA. Twelve individual participants contributed towards their travel and two for their living expenses.

Rare-Earth-Activated Phosphors Vikas Dubey, Neha Dubey, Marta Michalska Domanska, M Jayasimhadri, 2022-06-29 Rare Earth Activated Phosphors Chemistry and Applications outlines important fundamentals and properties and explores successful application that address key problems across the sciences. Sections introduce phosphors and luminescence, explore their properties, characteristics, synthesis and degradation, and highlight key applications across telecommunications, lighting, electroluminescent devices, bio-analytical sensors, bio-imaging set-ups, drug delivery, and sustainable energy devices. Drawing on the knowledge of an expert team of contributors, the book provides useful insight into successfully harnessing the properties of rare earth activated phosphors for a range of important applications. Rare earth nano phosphors offer an interesting array of characteristics including sharp emission bands, exceptional optical damage thresholds, low toxicity, high selectivity and stability, and long luminescence lifetimes. Understanding these properties can help researchers effectively manipulate them for a range of important applications. Provides a good introduction to the useful properties and characteristics of rare earth activated phosphors. Analyzes the use of rare earth activated phosphors for a broad variety of important applications, bridging the gap between theory and application. Encourages further discourse and development for improving the energy efficiency of devices based on rare earth activated phosphors. **Hydrogen-bonded Interpolymer**

Complexes: Formation, Structure And Applications Vitaliy V Khutoryanskiy, Georgios Staikos, 2009-03-09 Noncovalent interactions play key roles in many natural processes leading to the self-assembly of molecules with the formation of supramolecular structures. One of the most important forces responsible for self-assembly is hydrogen bonding, which also plays an important role in the self-assembly of synthetic polymers in aqueous solutions. Proton-accepting polymers can associate with proton-donating polymers via hydrogen bonding in aqueous solutions and form polymer-polymer or interpolymer complexes. There has been an increased interest among researchers in hydrogen-bonded interpolymer complexes since the first pioneering papers were published in the early 1960s. Several hundred research papers have been published on various aspects of complex formation, reactions in solutions and interfaces, properties of interpolymer complexes, and their potential applications. This book focuses on the latest developments in the area of interpolymer complexation via hydrogen bonding. It represents a collection of original and review articles written by recognized experts from Germany, Greece, Kazakhstan, Poland, Romania, Russia, UK, Ukraine, and the USA. It highlights many important applications of interpolymer complexes, including the stabilization of colloidal systems, pharmaceuticals, and nanomaterials. *Capacity Building in the Fight Against Terrorism* IOS Press, 2013-09-18 The fight against terrorism is constantly in the news and NATO

has committed to the mission of counterterrorism as a central role of the alliance This is a mission which requires the maximum cooperation of all NATO members and partners and the sharing of knowledge and expertise is crucial to its success This book presents the proceedings of the NATO Centre of Excellence Defence against Terrorism COE DAT Advanced Training Course Capacity Building in the Fight against Terrorism held in Bishkek Kyrgyzstan in June 2012 The presentations were delivered by 11 expert practitioners and academics from eight countries The subjects covered include an overview of terrorism NATO s approach to defence against terrorism weapons of mass destruction terrorism eco terrorism religion and the question of violence as well as energy and environmental security international cooperation human rights use of the internet crisis management finance recruitment and prejudice perception management as they relate to the fight against terrorism This book will be of interest to all those wishing to maintain an awareness of the current situation as regards terrorism and counter terrorism worldwide The British National Bibliography Arthur James Wells,2004 *American Book Publishing Record* ,2003

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