



Essentials of **MEDICAL GEOLOGY**

Impacts of the Natural Environment on Public Health

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Medical Geology Medical Geology

Motomu Ibaraki, Hiroko Mori



Medical Geology Medical Geology:

Introduction to Medical Geology C. B. Dissanayake, Rohana Chandrajith, 2009-09-01 Over two billion people live in tropical lands Most of them live in intimate contact with the immediate geological environment obtaining their food and water directly from it The unique geochemistry of these tropical environments have a marked influence on their health giving rise to diseases that affect millions of people The origin of these diseases is geologic as exemplified by dental and skeletal fluorosis iodine deficiency disorders trace element imbalances to name a few This book one of the first of its kind serves as an excellent introduction to the emerging discipline of Medical Geology **Medical Geology** Majeti Narasimha Vara Prasad, Meththika Vithanage, 2023-02-20 Medical Geology The key to understanding the relationship between the geological environment and human health Medical geology deals with of the impact of environmental factors on the health of individual human beings and communities In particular it studies environmental exposure to both macro and micronutrients in the geosphere hydrosphere and atmosphere respectively soil water and airborne dust which may positively or negatively impact human growth development and overall health The insights contributed by this burgeoning field can aid not only in individual medical cases but also in assessing disproportionately impacted communities and addressing global medical inequality Medical Geology En route to One Health is among the first books to address this vital subject by summarizing recent research in this field It also serves as an introduction to the multidisciplinary One Health methodology which unites medical geological and environmental insights in one continuous approach to public health Medical Geology readers will also find An explanation of the influence of the environment on nutrient availability Case studies of well documented links between endemic diseases and environmental conditions A systematic analysis of the causes of essential element deficiencies in different world regions Medical Geology is an essential overview of the field for advanced students as well as medical environmental or geological researchers who wish to understand the complex relationship between the geological environment and human health Essentials of Medical Geology Olle Selinus, 2013-04-30 This book offers essential concepts and practical tools for understanding geological processes influencing human exposure to geologic elements and explores the science underpinning investigations of health effects of exposure to naturally occurring elements Essentials of Medical Geology , 2005-02-03 This authoritative reference volume emphasizes the importance and interrelationships of geological processes to the health and diseases of humans and animals Its accessible format fosters better communication between the health and geoscience communities by elucidating the geologic origins and flow of toxic elements in the environment that lead to human exposure through the consumption of food and water For example problems of excess intake from drinking water have been encountered for several inorganic compounds including fluoride in Africa and India arsenic in certain areas of Argentina Chile and Taiwan selenium in seleniferous areas in the U S Venezuela and China and nitrate in agricultural areas with heavy use of fertilizers Environmental influences on vector borne diseases and stormflow water quality influences

are also featured Numerous examples of the environmental influences on human health from across the globe are also presented and discussed in this volume Covers recent advances and future research topics at the intersection of environmental science and public health Developed by 60 experts from 20 countries and edited by professionals from the International Working Group on Medical Geology Includes 200 color photographs and illustrations Organizes information in a highly structured format for easy reference Written for a broad audience ranging from students researchers and medical professionals to policymakers and the general public

Essentials of Medical Geology Olle Selinus, 2013-03-30 Essentials of Medical Geology reviews the essential concepts and practical tools required to tackle environmental and public health problems It is organized into four main sections The first section deals with the fundamentals of environmental biology the natural and anthropogenic sources of health elements that impact health and illustrate key biogeochemical transformations The second section looks at the geological processes influencing human exposure to specific elements such as radon arsenic fluorine selenium and iodine The third section presents the concepts and techniques of pathology toxicology and epidemiology that underpin investigations into the human health effects of exposure to naturally occurring elements The last section provides a toolbox of analytical approaches to environmental research and medical geology investigations Essentials of Medical Geology was first published in 2005 and has since won three prestigious rewards The book has been recognized as a key book in both medical and geology fields and is widely used as textbook and reference book in these fields For this revised edition editors and authors have updated the content that evolved a lot during 2005 and added two new chapters on public health and agriculture and health This updated volume can now continue to be used as a textbook and reference book for all who are interested in this important topic and its impacts the health and wellbeing of many millions of people all over the world Addresses key topics at the intersection of environmental science and human health Developed by 60 international experts from 20 countries and edited by professionals from the International Medical Geology Association IMGA Written in non technical language for a broad spectrum of readers ranging from students and professional researchers to policymakers and the general public Includes color illustrations throughout references for further investigation and other aids to the reader

Medical Geology Miomir Komatina, 2004-03-31 Geology one of the basic natural sciences is proving to be of outstanding importance in solving problems relating to agriculture exploitation of the Earth's mineral resources environmental issues soil preservation water energy and other resources protection against natural disasters landslides floods volcanic eruptions and earthquakes as well as human health The main objective of the book Medical Geology Effects of Geological Environments on Human Health is to show how the geological environment affects human health and to explore preventative methods for improvement This monograph consists of the following five segments Introduction Geological and other factors and their influence on the human health Subject tasks and methods of geomedical discipline Regional medical geology Applied medical geology The topics covered in this book will be of interest to a wide circle of readers including

geologists doctors biologists ecologists planners and many others who are dedicated to the quality and protection of human health

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

Practical Applications of Medical Geology Malcolm Siegel, Olle Selinus, Robert Finkelman, 2021-08-01 This edited volume provides a framework for integrating methods and information drawn from geological and medical sciences and provides case studies in medical geology to illustrate the usefulness of this framework for crafting environmental and public health policies related to natural materials The relevance of medical geology research to policy decisions is a topic rarely discussed and this volume attempts to be a unique source for researchers and policy makers in the field of medical geology in addressing this gap in practical medical geology applications The book's four sections establish this framework in detail using risk assessment case studies data analyses and specific medical geology techniques Following an introduction to medical geology in the context of risk assessment and risk management the second section discusses specific methods used in medical geology in the categories of geoscience biomedicine and data sources The third section discusses the medical geology of natural materials energy use and environmental and workplace impacts This section includes specific case studies in medical geology and describes how the methods and data from the previous section are used in a medical geology analysis The fourth section includes a guide to the medical geology literature and provides some examples of medical geology programs in Asia and Africa

Progress in Medical Geology Motomu Ibaraki, Hiroko Mori, 2017-06-23 This volume represents a compendium of research conducted by international scholars who participated in the 2nd Symposium on Advances in Geospatial held during The 5th International Conference on Medical Geology in Arlington Virginia USA in 2013 The research topics dealt with here mainly focus on the new scientific field of medical geology used to address a variety of human health issues and diseases specifically related to

geological materials and earth system processes This volume will be of interest to those who wish to learn about current and historical health issues relating to geological materials or other environmental factors It also represents a useful guide to learning the interdisciplinary approach to problem solving in the field of medical geology **Medical Geology** Majeti Narasimha Vara Prasad, Meththika Vithanage, 2023-03-08 Medical Geology The key to understanding the relationship between the geological environment and human health Medical geology deals with of the impact of environmental factors on the health of individual human beings and communities In particular it studies environmental exposure to both macro and micronutrients in the geosphere hydrosphere and atmosphere respectively soil water and airborne dust which may positively or negatively impact human growth development and overall health The insights contributed by this burgeoning field can aid not only in individual medical cases but also in assessing disproportionately impacted communities and addressing global medical inequality Medical Geology En route to One Health is among the first books to address this vital subject by summarizing recent research in this field It also serves as an introduction to the multidisciplinary One Health methodology which unites medical geological and environmental insights in one continuous approach to public health Medical Geology readers will also find An explanation of the influence of the environment on nutrient availability Case studies of well documented links between endemic diseases and environmental conditions A systematic analysis of the causes of essential element deficiencies in different world regions Medical Geology is an essential overview of the field for advanced students as well as medical environmental or geological researchers who wish to understand the complex relationship between the geological environment and human health Medical Geology for Beginners Kirtikumar Randive, Pratik Godbole, 2025-02-27 This book is created for a diverse audience that includes geologists and Earth scientists studying the impacts of geological processes on human health as well as health professionals and medical researchers interested in the environmental determinants of health It is also a good reference for the environmental scientists and public health policymakers focused on sustainable practices and health risk mitigation Additionally undergraduate and postgraduate students research scholars and academicians in geosciences environmental health and related interdisciplinary fields will find this book valuable for their studies and research Industry professionals in mining environmental monitoring and disaster management will benefit from the health insights provided Furthermore individuals working in Ayurveda and traditional medicine will discover valuable information on the therapeutic uses of geological materials This book explores relationship between geology and human health providing vital insights for professionals in both the geosciences and health sciences It delves into how natural processes materials and anthropogenic activities influence human health highlighting the critical role of Medical Geology in modern science and public health Finally as Professor Robert Finkleman narrates Medical Geology for Beginners provides an invaluable service to the science of medical geology and to anyone interested in this subject matter and especially to the young readers who may be inspired to pursue a career in medical geology Medical Geology of Africa Theophilus Clavell

Davies,2024-06-14 Medical Geology of Africa explores the connection between geological materials processes and the health of humans and animals The book fosters an improved understanding of the ways in which the geological environment impacts the geographical distribution of health problems and how they contribute to better diagnoses and therapy Africa s unique geoenvironmental condition gives added relevance to such studies underlining the need for geoscience and public health students and practitioners to understand new principles and applications Chapters in the book provide extended enquiry based investigations and examples that employ real geochemical datasets epidemiological records public health statistics and visualizations Provides a summary of current research on Medical Geology of Africa Identifies gaps in knowledge of the role of the geo environment in deciphering unknown aetiologies Assembles the most recent literature on current thematic issues and prescribes directions of future research

Medical Geology ,2016 Annotation Geosciences Special Issue Medical Geology Impacts of the Natural Environment on Public HealthAll living organisms are composed of major minor and trace elements given by nature and supplied by geology Medical geology is a rapidly growing discipline dealing with the influence of natural geological and environmental risk factors on the distribution of health problems in humans and animals As a multi disciplinary scientific field medical geology has the potential of helping medical and public health communities all over the world in the pursuit of solutions to a wide range of environmental and naturally induced health issues The natural environment can impact health in a variety of ways The composition of rocks and minerals are imprinted on the air that we breathe the water that we drink and the food that we eat For many people this transference of minerals and the trace elements they contain is beneficial as it is the primary source of nutrients such as calcium iron magnesium potassium and about a dozen other elements that are essential for a healthy life However sometimes the local geology can cause significant health problems because there is an insufficient amount of an essential element or an excess of a potentially toxic element such as arsenic mercury lead fluorine etc or a harmful substance such as methane gas dust sized particles of asbestos quartz or pyrite or certain naturally occurring organic compounds Current and future medical geology concerns include dangerous levels of arsenic in drinking water in dozens of countries including the USA mercury emissions from coal combustion and its bioaccumulation in the environment the impacts of mercury and lead mobilizations in regions where artisanal gold mining is conducted the residual health impacts of geologic processes such as volcanic emissions earthquakes tsunamis hurricanes and geogenic dust exposure to fibrous minerals such as asbestos and erionite and the health impacts of global climate change Billions of people most in developing countries are afflicted by these and other environmental health issues that can be avoided prevented mitigated or minimized through research and educational outreach Geosciences Special Issue Medical Geology Impacts of the Natural Environment on Public HealthThis Special Issue of Geosciences discusses recent advances in medical geology providing examples from research conducted all over the world Among the topics to be discussed are Health effects from trace elements metals and metalloids Regional and global impacts of natural dust including the study of

nanoparticles Chemical and environmental pathology of diseases associated with natural environment Novel analytical approaches to the study of natural geochemical and environmental agents Research on beneficial health aspects of natural geological materials Risk management risk communication and risk mitigation on medical geology Remote sensing and GIS applications on medical geology Epidemiology and public health studies on medical geology Climate change and medical geology Clinical and toxicological research on biomarkers of exposure Veterinary medical geology Biosurveillance and biomonitoring studies on medical geology

Elements of Geochemistry, Geochemical Exploration and Medical Geology K. R. Randive, 2013

Medical Geology: Impacts of the Natural Environment on Public Health Jose A. Centeno, Robert B. Finkelman, Olle Selinus, 2018-10-01 This book is a printed edition of the Special Issue Medical Geology Impacts of the Natural Environment on Public Health that was published in Geosciences

Medical Geology: Effects of Geological Environments on Human Health Justin Richmond, 2023-09-19 Geology is a field of natural science that involves the study of the Earth and other astronomical objects characteristics and composition of these objects and how they change over time Medical geology is a new interdisciplinary field that investigates the relationship between natural geological factors and their impact on animal and human health It also attempts to develop an understanding of how the environment influences the geographical distribution of health issues in both animals and humans Naturally high quantities of minerals elements microbes or other compounds may also be found in geologic materials including soils volcanic emissions rocks and dusts which can improve or harm human health They may also consist of impurities from human sources such as chemicals pathogen contaminants or minerals There are several diseases which can be caused due to geologic materials such as cardiovascular disease and iodine deficiency This book elucidates the concepts and innovative models around prospective developments in the field of medical geology Those in search of information to further their knowledge on the effects of geological environments on human health will be greatly assisted by it

Geology and Health H. Catherine W. Skinner, Antony R. Berger, 2003-03-20 Geology and Health is an integration of papers from geo bio chemical scientists on health issues of concern to humankind worldwide demonstrating how the health and well being of populations now and in the future can benefit through coordinated scientific efforts International examples on dusts coal arsenic fluorine lead mercury and water borne chemicals that lead to health effects are documented and explored They were selected to illustrate how hazards and potential hazards may be from natural materials and processes and how anthropomorphic changes may have contributed to disease and debilitation instead of solutions Introductory essays by the editors highlight some of the progress toward scientific integration that could be applied to other geographic sites and research efforts A global purview and integration of earth and health sciences expertise could benefit the future of populations from many countries Effective solutions to combat present and future hazards will arise when the full scope of human interactions with the total environment is appreciated by the wide range of people in positions to make important and probably expensive decisions A case to illustrate the point of necessary crossover between Geology

and Health was the drilling of shallow tube wells in Bangladesh to provide non contaminated ground water This good solution unfortunately mobilized arsenic from rocks into the aquifer and created an unforeseen or silent hazard arsenic Geologists produce maps of earth materials and are concerned with natural processes in the environment with long time frame horizons The health effects encountered through changing the water source might have been avoided if the hydrological characteristics of the Bangladesh delta had been known and any chemical hazards had been investigated and documented A recurrence of this type of oversight should be avoidable when responsible parties often government officials appreciate the necessity of such integrated efforts The book extols the virtues of cooperation between the earth life and health sciences as the most practical approach to better public health worldwide

The Impact of the Geological Sciences on Society

Marion E. Bickford,2013-09-24 This volume addresses the impact of the geological sciences from 1963 2013 in such areas as geologic hazards mineral resources energy resources water resources soil resources geology and health geologic education and the informing of general public policy The chapters focus on how earth science informs and benefits society Provided by publisher

Medical geology F.M. Fordyce,2001

Medical Geology in Mining Kirtikumar Randive,Shubhangi

Pingle,Anupam Agnihotri,2022-06-14 This book discusses a wide range of health related mining issues with particular reference to occupational diseases metal toxicity postural injuries in miners modern fire safety controls noise induced hearing loss prevention and noise mapping Mining plays a central role in the development of modern civilization By providing the essential raw materials mining ensures progress safety and comfort of people However this necessary activity comes with several woes the most important of which are occupational health hazards Mines act as sources of constant danger and risk to the miners irrespective of the scale of mining such as large scale industrial mining or small scale artisanal mining Not only are there accidents but continuous exposure to dust metal toxicity hazardous gases and fumes and loud noises giving rise to a variety of diseases to mine workers The comprehensive coverage of issues and the case studies will make this book an essential reference and critical reading Medical geology is a necessary discipline in earth sciences Unfortunately not much literature is available on this subject Therefore this book is essential for practicing engineers and supervisors in mines health and safety professionals researchers and mining industry students

Unveiling the Magic of Words: A Report on "**Medical Geology Medical Geology**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Medical Geology Medical Geology**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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