

1. Record Nr.	UNINA9910783931703321
Titolo	Essentials of medical geology [[electronic resource]] : impacts of the natural environment on public health // editor-in-chief, Olle Selinus ; associate editors, Brian J. Alloway ... [et al.]
Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier Academic Press, c2005
ISBN	1-280-63795-1 9786610637959 0-08-045419-4
Descrizione fisica	1 online resource (826 p.)
Altri autori (Persone)	SelinusO (Olle) AllowayB. J
Disciplina	614.4/2 616.98
Soggetti	Environmentally induced diseases Environmental health Medical geography Geology - Health aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contributors; Preface; 1. Medical Geology: Perspectives and Prospects; Section I Environmental Biology; 2. Natural Distribution and Abundance of Elements; 3. Anthropogenic Sources; 4. Uptake of Elements from a Chemical Point of View; 5. Uptake of Elements from a Biological Point of View; 6. Biological Functions of the Elements; 7. Geological Impacts on Nutrition; 8. Biological Responses of Elements; Section II Pathways and Exposure; 9. Volcanic Emissions and Health; 10. Radon in Air and Water; 11. Arsenic in Groundwater and the Environment; 12. Fluoride in Natural Waters 13. Water Hardness and Health Effects14. Bioavailability of Elements in Soil; 15. Selenium Deficiency and Toxicity in the Environment; 16. Soils and Iodine Deficiency; 17. Geophagy and the Involuntary Ingestion of Soil; 18. Natural Aerosolic Mineral Dusts and Human Health; 19. The Ecology of Soil-Borne Human Pathogens; 20. Animals and Medical Geology; Section III Environmental Toxicology, Pathology, and Medical

Geology; 21. Environmental Epidemiology; 22. Environmental Medicine; 23. Environmental Pathology; 24. Toxicology; 25. Speciation of Trace Elements; Section IV Techniques and Tools 26. GIS in Human Health Studies 27. Investigating Vector-Borne and Zoonotic Diseases with Remote Sensing and GIS; 28. Mineralogy of Bone; 29. Inorganic and Organic Geochemistry Techniques; 30. Histochemical and Microprobe Analysis in Medical Geology; 31. Modeling Ground water Flow and Quality; Appendices A. International Reference Values Soils; Appendices B. Web Links; Appendices C. Glossary; INDEX

Sommario/riassunto

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 A
