



Computers & Geology, Volume 4

PREDICTIVE GEOLOGY

with emphasis on
nuclear-waste disposal

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Predictive Geology With Emphasis On Nuclear Waste Disposal

SA Adler



Predictive Geology With Emphasis On Nuclear Waste Disposal:

Predictive Geology Ghislain De Marsily, Daniel F Merriam, 2013-10-22 Predictive Geology With Emphasis on Nuclear Waste Disposal covers the proceedings of papers presented at sessions sponsored by the International Association for Mathematical Geology. The topics that this book tackles are issues relevant to nuclear waste disposal. The first chapter discusses the use of plate tectonics as a catastrophe theoretic model and the second chapter covers geologic predictions and radioactive waste disposal. Chapter 3 also talks about radioactive waste disposal with emphasis on the application of predictive geology. Chapter 4 discusses salt domes and Chapter 5 tackles the use of fault tree analysis for probabilistic assessment of radioactive waste segregation. The sixth chapter covers predictive geology in nuclear waste management while the seventh chapter tackles nuclear power on unstable ground. The eighth chapter deals with long term thermohydrologic behavior of nuclear waste repositories. Chapter 9 discusses the influence of faulting on groundwater flow and contaminant transport while chapter 10 covers the influence of microfissures in crystalline rock on radionuclide migration. The eleventh chapter tackles the long term prediction of the fate of nuclear waste deeply buried in granite and the twelfth chapter talks about the use of quantitative evaluation of the contribution of geologic knowledge in exploration for petroleum. The last chapter deals with resource estimation models and predicted discovery. Researchers and professionals concerned with the effects of radioactive materials to the environment will find this book a great source of information. **Predictive Geology, with Emphasis on Nuclear-waste Disposal** International Association for Mathematical Geology, 1982 *Active Tectonics* National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Geophysics Research Forum, Geophysics Study Committee, 1986-01-01 Over 250 000 people were killed in the Tangshan China earthquake of 1976 and other less active tectonic processes can disrupt river channels or have a grave impact on repositories of radioactive wastes. Since tectonic processes can be critical to many human activities the Geophysics Study Committee Panel on Active Tectonics has presented an evaluation of the current state of knowledge about tectonic events which include not only earthquakes but volcanic eruptions and similar events. This book addresses three main topics: the tectonic processes and their rates, methods of identifying and evaluating active tectonics and the effects of active tectonics on society. **Nuclear Energy and the Environment** Essam E. El-Hinnawi, 2013-10-22 Nuclear Energy and the Environment provides an assessment based on the opinions and findings of international experts in the field of atomic energy of the environmental impact of the different stages of the nuclear fuel cycle. Chapters in the book cover different subjects in the use of nuclear energy such as the environmental impacts of energy production and use, the environmental impact of mining and milling of radioactive ores, upgrading processes and the fabrication of nuclear fuels, none radiological environmental implications of nuclear energy and the technology and environmental hazards of nuclear waste disposal. Nuclear scientists, environmentalists, ecologists, nuclear engineers and policy makers will find the book interesting.

Geraghty & Miller's Groundwater Bibliography, Fifth Edition Frits van der Leeden, 2020-04-14 This bibliography reflects the tremendous growth of interest in groundwater which has occurred in recent years dealing with a particular aspect of the field of hydrogeology It will be helpful to those searching for information on management and protection of the groundwater resource **Nuclear Safety**, 1994 Geology of High-Level Nuclear Waste Disposal I.S. Roxburgh, 2012-12-06

Advances in Nuclear Science and Technology Jeffery Lewins, Martin Becker, 2006-04-18 The editors have pleasure in presenting this volume of our review series We have specialised in three areas perturbation Monte Carlo non linear kinetics and the transfer of radioactive fluids in rocks These contributions are linked however in the demands for optimising complex systems that are a feature of the scale of nuclear power production Kuniharu Kishida's account of Japanese thinking in the application of modern non linear theory to reactor kinetics and control comes at a time when the community of control scholars is seeking how to apply the new ideas that have led to the prominence of chaos theory to our field Problems of maintenance in power reactors are as severe as ever and must be solved for credibility to characterise any new program As much as 30% of unanticipated down time for example is due to the failure of motor operated valves We need a theory to provide for preventive maintenance This in turn depends heavily on on line monitoring to anticipate failure as well as expert systems to schedule preventive treatment Noise theory with its promise of on line interpretation of information from inchoate breakdown is the key It is all too likely that the need to deal with major departures makes a non linear theory of noise essential We can be grateful that Professor Kishida has provided us with such a consistent account *Risk Analysis in Nuclear Waste Management* A. Saltelli, D.A. Stanners, M. D'Alessandro, 1989-10-31 Proceedings of the ISPRA Course held at the Joint Research Centre Ispra Italy May 30 June 3 1988 **Computer Applications in Resource Estimation** G.

Gaal, D.F. Merriam, 2013-10-22 Quantitative resource assessment methods play an increasing role in exploration for petroleum water and minerals This volume presents an international review on the state of the art of the computerized methodology in resource exploration The papers taken from those presented at the symposium are classified to either techniques i.e trend analysis classification techniques geostatistics image analysis expert systems artificial intelligence inventories tomography and others or to resources i.e petroleum water metals and non metals *INIS Atomindex*, 1985

Dictionary of Mathematical Geosciences Richard J. Howarth, 2017-05-27 This dictionary includes a number of mathematical statistical and computing terms and their definitions to assist geoscientists and provide guidance on the methods and terminology encountered in the literature Each technical term used in the explanations can be found in the dictionary which also includes explanations of basics such as trigonometric functions and logarithms There are also citations from the relevant literature to show the term's first use in mathematics statistics etc and its subsequent usage in geosciences

Radioactive Waste Management International Atomic Energy Agency, 1984 Radioactive Waste Management, 1988

Energy Research Abstracts, 1992-04 *Frontiers in Geoscience Information* Geoscience Information Society.

Meeting,1990 **Journal of Sedimentary Petrology** ,1982 *The Earth Around Us* Jill Schneiderman,2018-02-19 Soil contamination public lands surface and groundwater pollution coastal erosion global warming Have we reached the limits of this planet s ability to provide for us If so what can we do about it These vital questions are addressed in *The Earth Around Us* a unique collection of thirty one essays by a diverse array of today s foremost scientist writers Sharing an ability to communicate science in a clear and engaging fashion the contributors explore Earth s history and processes especially in relation to today s environmental issues and show how we as members of a global community can help maintain a livable planet The narratives in this collection are organized into seven parts that describe Earth s time and history and the place of people on it Views of nature and the ethics behind our conduct on Earth Resources for the twenty first century such as public lands healthy forests and soils clean ground and surface waters and fluctuating coastlines Ill informed local manipulations of landscapes across the United States Innovative solutions to environmental problems that arise from knowledge of the interactions between living things and the Earth s air water and soil Natural and human induced global scale perturbations to the earth system Our responsibility to people and all other organisms that live on Earth Never before has such a widely experienced group of prominent earth scientists been brought together to help readers understand how earth s environment works Driven by the belief that earth science is and should be an integral part of everyday life *The Earth Around Us* empowers all of us to play a more educated and active part in the search for a sustainable future for our planet and its inhabitants □□□□□□□□□□□□□□□□□□□□ ,1985 **Petroleum Abstracts. Literature and Patents** ,1982

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