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This book offers advanced geology students an in-depth, quantitative approach to environmental engineering, with a special emphasis on the recognition and avoidance of geologic hazards. Drawing on real-life examples, the book handles: Rock and soil mechanics, including slope stability and surficial deposits ; Geophysical issues and earthquake hazards

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This book offers advanced geology students an in-depth, quantitative approach to environmental engineering, with a special emphasis on the recognition and avoidance of geologic hazards. Drawing on real-life examples, the book handles: Rock and soil mechanics, including slope stability and surficial deposits. Hydrological concerns, groundwater, and fluvial and coastal processes.

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For Reservoir Engineering and Engineering Geology courses. Rahn's text provides a quantitative description of methods utilized in Engineering Geology. It includes such recent events as the 1989 Loma Prieta earthquake as well as the 1993 Mississippi River floods. Case histories and additional worked examples and problems are included to give students a more thorough and current knowledge base ...

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Environmental engineering Wikipedia Environmental engineering is a professional engineering discipline that takes from broad scientific topics like chemistry biology ecology geology hydraulics hydrology microbiology and mathematics to create solutions that will protect and also improves the health of living organisms and improve the quality of the environment Geology Geophysics and ...

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ENGINEERING GEOLOGY: AN ENVIRONMENTAL APPROACH By P.h. Rahn - Hardcover. A book that has been read but is in good condition. Very minimal damage to the cover including scuff marks, but no holes or tears.

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Environmental geologists use a wide range of geologic data to solve environmental problems and conflicts. Professionals and academics in this field need to know how to gather information on such diverse conditions as soil type, rock structure, and groundwater flow and then utilize it to understand geological site conditions. Field surveys, maps, well logs, bore holes, ground-penetrating radar, aerial photos, geologic literature, and more help to reveal potential natural hazards in an area or how to remediate contaminated sites. This new workbook presents accessible activities designed to highlight key concepts in environmental geology and give students an idea of what they need to know to join the workforce as an environmental geologist, engineering geologist, geological engineer, or geotechnical engineer. Exercises cover: • Preparation, data collection, and data analysis • Descriptive and engineering properties of earth materials • Basic tools used in conjunction with geoenvironmental investigations • Forces operating on earth materials within the earth • Inanimate forces operating on earth materials at the surface of the earth • Human activities operating on earth materials Each activity encourages students to think critically and develop deeper knowledge of environmental geology.

Using the earth systems approach, Dr Merritts and her colleagues guide readers towards an understanding of Earth's varied environments, the whole-Earth systems connecting them and the ramifications of natural events and human interaction.

Environmental And Engineering Geology is a component of Encyclopedia of Environmental and Ecological Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on Environmental and Engineering Geology with contributions from distinguished experts in the field discusses matters of great relevance to our world such as: engineering and environmental geology, and their importance in our life. It also includes a discussion of some new applications of geoscience, such as medical geology, forensic geology, use of underground space for human occupancy, and geoindicators. These four volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs.

This fourth volume of five from the June 1997 conference was much delayed (the first four volumes were published in 1997). It comprises 23 special lectures solicited for the conference on various aspects of problematic soils, natural and man-made hazards, urban and regional planning, waste disposal, mines and quarries, large engineering works, and protection of geological, geographical, historical, and architectural heritage. There is no subject index. Annotation copyrighted by Book News Inc., Portland, OR

Environmental And Engineering Geology is a component of Encyclopedia of Environmental and Ecological Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on Environmental and Engineering Geology with contributions from distinguished experts in the field discusses matters of great relevance to our world such as: engineering and environmental geology, and their importance in our life. It also includes a discussion of some new applications of geoscience, such as medical geology, forensic geology, use of underground space for human occupancy, and geoindicators. These four volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs.

Provides a complete guide to the study, design, construction and management of landslide and slope engineering measures for mountain roads, with emphasis on low-cost. The geographical focus is on the tropics and sub-tropics, but is also highly relevant to other regions where heavy rain, steep slopes and weak soils and rocks combine to create slope instability. The causes and mechanisms of landslides are described, and the hazards they pose to mountain roads are illustrated. Methods of desk study, field mapping and ground investigation are reviewed and illustrated, with emphasis on geomorphological and engineering geological techniques. The design and construction of alignments, earthworks, drainage, retaining structures, the stabilization of soil slopes and rock slopes, and the control of erosion on slopes and in streams covered. Slope management as part of road maintenance and operation is reviewed, and procedures for risk assessment and works prioritization are described.

The field of geoen지니어ing is at a crossroads where the path to high-tech solutions meets the path to expanding applications of geotechnology. In this report, the term "geoen지니어ing" includes all types of engineering that deal with Earth materials, such as geotechnical engineering, geological engineering, hydrological engineering, and Earth-related parts of petroleum engineering and mining engineering. The rapid expansion of nanotechnology, biotechnology, and information technology begs the question of how these new approaches might come to play in developing better solutions for geotechnological problems. This report presents a vision for the future of geotechnology aimed at National Science Foundation (NSF) program managers, the geological and geotechnical engineering community as a whole, and other interested parties, including Congress, federal and state agencies, industry, academia, and other stakeholders in geoen지니어ing research. Some of the ideas may be close to reality whereas others may turn out to be elusive, but they all present possibilities to strive for and potential goals for the future. Geoen지니어ers are poised to expand their roles and lead in finding solutions for modern Earth systems problems, such as global change, emissions-free energy supply, global water supply, and urban systems.

For introductory courses in geology for engineers or engineering geology, offered in departments of geology, earth science, and civil engineering. This text provides an introduction to geology for students of engineering and environmental science - with a focus on applications that they are likely to use in their professional careers. It demonstrates the importance of geology to engineers by including introductory mechanics, hydraulics, and case studies that illustrate interactions between geology and engineering; applications involving environmental problems and solutions are given significant coverage as well.

Environmental geology is geology applied to living. The environment is the sum of all the features and conditions surrounding an organism that may influence it. An individual's physical environment encompasses rocks and soil, air and water, such factors as light and temperature, and other organisms. One's social environment might include a network of family and friends, a particular political system, and a set of social customs that affect one's behavior. Geology is the study of the earth. Because the earth provides the basic physical environment in which we live, all of geology might in one sense be regarded as environmental geology. However, the term environmental geology is usually restricted to refer particularly to geology as it relates directly to human activities, and that is the focus of this book. Environmental geology is geology applied to living. We will examine how geologic processes and hazards influence human activities (and sometimes the reverse), the geologic aspects of pollution and waste-disposal problems, and several other topics --