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Civil Engineering is the component of Encyclopedia of Physical Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Civil Engineering is the oldest of the engineering

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specialties and has contributed very much to develop our society throughout the long history of human life. The advancement of civil engineering has, therefore, been closely related to that of civilization. In this theme, human activities on the earth from ancient times to the present are briefly reviewed first, and then the history of the process to establish the civil engineering discipline is discussed for better understanding of the important role that

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civil engineering has played in the growth of a mature society, from both technological and social points of view. Broad diversification of civil engineering has resulted from the enormous expansion of society during the latter half of the twentieth century. The various branches are briefly described to show the notable characters that civil engineering has formed to maintain the sustainable development of society. The Theme on Civil Engineering with contributions from

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distinguished experts in the field provides the essential aspects and fundamentals of civil engineering. The two 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, NGOs and GOs.

The second edition of this well established book provides a readable and highly illustrated

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overview of the main facets of geology for engineers. Comprehensively updated, and with four new sections, Foundations of Engineering Geology covers the entire spectrum of topics of interest to both student and practitioner. Provides a comprehensive introduction of the application of geologic fundamentals to civil engineering. Explains the theory and applied aspects of engineering geology, and the impact geology has on civil engineering planning, design, construction, and

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monitoring. Offers expanded coverage of applied geophysical methods, investigation fundamentals, use of aggregate materials, site instrumentation, and remote sensing.

Having originally defined the Environmental Geology course, this is considered the most comprehensive yet readable book for your course level. Keller continues to offer the most detailed, current research available. He covers a wide range of topics, discussing everything from

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fundamental geologic principles to the specifics of environmental law and geologic hazards, from a truly environmental perspective. The Ninth Edition emphasizes the engineering geology approach, especially in the discussion of soil and rock mechanics and landslides. Pearson eText gives students access to the text whenever and wherever they can access the Internet. The eText pages look exactly like the printed text, and include powerful interactive and

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*Every engineering
structure, whether it's a
building, bridge or road,
is affected by the ground
on which it is built.*

*Geology is of fundamental
importance when deciding
on the location and design
of all engineering works,
and it is essential that
engineers have a basic
knowledge of the subject.*

*Engineering Geology
introduces the
fundamentals of the*

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discipline and ensures that engineers have a clear understanding of the processes at work, and how they will impact on what is to be built. Core areas such as stratigraphy, rock types, structures and geological processes are explained, and put in context. The basics of soil mechanics and the links between groundwater conditions and underlying geology are introduced. As well as the theoretical knowledge necessary, Professor Bell introduces the techniques that engineers will need to

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learn about and understand the geological conditions in which they intend to build. Site investigation techniques are detailed, and the risks and risk avoidance methods for dealing with different conditions are explained.

** Accessible introduction to geology for engineers **

Key points illustrated with diagrams and

*photographs * Teaches the impact of geology on the planning and design of structures*

Composed of the proceedings of a symposium on engineering geology and

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the environment, held in Athens in June, 1997, this work provides a survey of trends in engineering geology, and an interdisciplinary collaboration with hydrogeology, geochemistry, geomorphology, and soil and rock mechanics.

This book is one out of 8 IAEG XII Congress volumes and deals with education and the professional ethics, which scientists, regulators and practitioners of engineering geology inevitably have to face

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through the purposes, methods, limitations and findings of their works. This volume presents contributions on the professional responsibilities of engineering geologists; the interaction of engineering geologists with other professionals; recognition of the engineering geological profession and its particular contribution to society, culture, and economy and implications for the education of engineering geologists at tertiary level and in

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further education schemes. Issues treated in this volume are: the position of engineering geology within the geo-engineering profession; professional ethics and communication; resource use and re-use; managing risk in a litigious world; engineering and geological responsibility and engineering geology at tertiary level. The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic

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role of engineering geology in our changing world and build on the four main themes of the congress: Environment, processes, issues and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: Climate Change and Engineering Geology. Landslide Processes. River Basins, Reservoir Sedimentation and Water Resources. Marine and Coastal Processes. Urban Geology, Sustainable Planning and Landscape Exploitation. Applied Geology for Major

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*Engineering Projects.
Education, Professional
Ethics and Public
Recognition of Engineering
Geology. Preservation of
Cultural Heritage.*

*Components of a Diverse
Planet*

*Urban Geology, Sustainable
Planning and Landscape
Exploitation*

*Environmental Geology
Landslide Processes*

*A Technical Approach to
Hydrogeology, Contaminant
Transport and Groundwater
Remediation*

*ENVIRONMENTAL AND
ENGINEERING GEOLOGY*

-Volume I

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[Geological and
Geotechnical Engineering
in the New Millennium
Proceedings of the
International Symposium on
Coastal Engineering
Geology, ISCEG-Shanghai
2012
Engineering Geology for
Society and Territory -
Volume 7
Hydrology
Slope Engineering for
Mountain Roads](#)

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

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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,

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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.

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Steve Hencher presents a broad and fresh view on the importance of engineering geology to civil engineering projects. Practical Engineering Geology provides an introduction to the way that projects are managed, designed and constructed and the ways that the engineering geologist can contribute to cost-effective and safe project achievement.

The nee

Geology – Basics for Engineers (second edition) presents the physical and chemical characteristics of the Earth, the nature and the properties of rocks and unconsolidated deposits/sediments, the action of

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water, how the Earth is transformed by various phenomena at different scales of time and space. The book shows the engineer how to take geological conditions into account in their projects, and how to exploit a wide range of natural resources in an intelligent way, reduce geological hazards, and manage subsurface pollution. This second edition has been fully revised and updated. Through a problem-based learning approach, this instructional text imparts knowledge and practical experience to engineering students (undergraduate and

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graduate level), as well as to experts in the fields of civil engineering, environmental engineering, earth sciences, architecture, land and urban planning. Free digital supplements to the book, found on the book page, contain solutions to the problems and animations that show additional facets of the living Earth. The original French edition of the book (2007) won the prestigious Roberval Prize, an international contest organized by the University of Technology of Compiègne in collaboration with the General Council of Oise, France. Geology, Basics for

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Engineers was selected out of a total of 110 candidates. The jury praised the book as a "very well conceived teaching textbook" and underscored its highly didactic nature, as well as the excellent quality of its illustrations. Features: Offers an exhaustive outline of the methods and techniques used in geology, with a study of the nature and properties of the principal soils and rocks Helps students understand how geological conditions should be taken into account by the engineer by taking a problem-solving approach Contains extensive figures and examples,

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solutions to problems, and illustrative animations Presents a highly didactic and synthetic work intended for engineering students as well as experts in civil engineering, environmental engineering, the earth sciences, and architecture

Questions about the Earth continue to haunt engineers. For instance: What do we know about our ancient planet? How should we be using it? And what are the best technologies and strategies to sustain us? Earth Engineering provides the background necessary to analyze these questions as well as perspectives, principles, and

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practices to guide your understanding of geoengineering problems. Scientists, engineers, regulators, designers, constructors, educators and students will find this book especially useful when considering challenges tied to civil engineering, construction, and mining. Written in simple language, this reference guide covers many areas, including • how the Earth began and developed over 4.6 billion years ago; • • how the Earth began and developed over 4.6 billion years ago; • how to use site investigations to mitigate planning omissions and design

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errors; • how to cope with variable subsurface strata and building challenges; • how to approach geologic uncertainty and analyze problems on varying terrain; • how to handle environmental regulations and legal considerations. You will treasure this broad collection and overview of geoengineering perspectives, principles, and practices. Enhance your knowledge and troubleshoot common problems with the knowledge, tools, and strategies you will find in the extensive repertoire of topics and concise illustrations in Earth Engineering. Geology is the Component of

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Encyclopedia of Earth and Atmospheric Sciences, in the global Encyclopedia of Life Support Systems (EOLSS)), which is an integrated compendium of twenty Encyclopedias. The theme on geology in the Encyclopedia of Earth and Atmospheric Sciences, presents many aspects of geology under the following nine different topics: The Organized Earth.; Tectonics and Geodynamics; Igneous and Metamorphic Petrology; Sedimentary Geology and Paleontology; Overview of the Mineralogical Sciences; Geology of Metallic and Non-Metallic

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Mineral Resources; Regional Geology; Geology of Petroleum, Gas, and Coal; Environmental and Engineering Geology. Geology Applied to Engineering bridges the gap between the two fields through its versatile application of the physical aspects of geology to engineering design and construction. The Second Edition elucidates real-world practices, concerns, and issues for today's engineering geologists and geotechnical engineers. Both undergraduate and graduate students will benefit from the book's thorough coverage, as will professionals involved in

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assessing sites for engineering projects, evaluating construction materials, developing water resources, and conducting tests using industry standards. West and Shakoor offer expanded coverage of important topics such as slope stability and ground subsidence and significant fields in engineering geology, such as highways, dams, tunnels, and rock blasting. In order to allow for the diverse backgrounds of geologists and engineers, material on the properties of minerals, rocks, and soil provides a working knowledge of applied geology as a springboard to more

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comprehensive subjects in engineering. Example problems throughout the text demonstrate the practical applications of soil mechanics, rock weathering and soils, structural geology, groundwater, and geophysics. Thought-provoking and challenging exercises supplement core concepts such as determining shear strength and failure conditions, calculating the depth needed for borings, reading and analyzing maps, and constructing stratigraphic cross sections.

This textbook employs a technical and quantitative approach to explain subsurface

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hydrology and hydrogeology, and to offer a comprehensive overview of groundwater-related topics such as flow in porous media, aquifer characterization, contaminant description and transport, risk assessment, and groundwater remediation. It describes the characterization of subsurface flow of pristine and polluted water and provides readers with easily applicable tools for the design of water supply systems, drinking-water source protection, and remediation interventions. Specific applications range from groundwater exploitation as a drinking water supply to the

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remediation of contaminated aquifers, from the definition and safeguarding of drinking-water sources to the assessment of human health risks in connection with groundwater contamination events. The book represents an ideal learning resource for upper-undergraduate and graduate students of civil engineering, environmental engineering, and geology, as well as practitioners in the fields of water resource management and environmental protection who are interested in groundwater engineering and technical hydrogeology.

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This book is one out of 8
IAEG XII Congress volumes,
and deals with Landslide
processes, including:
field data and monitoring

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techniques, prediction and forecasting of landslide occurrence, regional landslide inventories and dating studies, modeling of slope instabilities and secondary hazards (e.g. impulse waves and landslide-induced tsunamis, landslide dam failures and breaching), hazard and risk assessment, earthquake and rainfall induced landslides, instabilities of volcanic edifices, remedial works and mitigation measures, development of innovative stabilization techniques

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and applicability to specific engineering geological conditions, use of geophysical techniques for landslide characterization and investigation of triggering mechanisms. Focuses is given to innovative techniques, well documented case studies in different environments, critical components of engineering geological and geotechnical investigations, hydrological and hydrogeological investigations, remote

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sensing and geophysical techniques, modeling of triggering, collapse, run out and landslide reactivation, geotechnical design and construction procedures in landslide zones, interaction of landslides with structures and infrastructures and possibility of domino effects. The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic role of engineering geology in our changing world and build

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on the four main themes of the congress: environment, processes, issues, and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: Climate Change and Engineering Geology. Landslide Processes. River Basins, Reservoir Sedimentation and Water Resources. Marine and Coastal Processes. Urban Geology, Sustainable Planning and Landscape Exploitation. Applied Geology for Major Engineering Projects. Education, Professional Ethics and Public

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Recognition of Engineering
Geology. Preservation of
Cultural Heritage.

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,

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and architectural heritage. There is no subject index. Annotation copyrighted by Book News Inc., Portland, OR

“New Frontiers in Engineering Geology and the Environment” collects selected papers presented at the International Symposium on Coastal Engineering Geology (ISCEG-Shanghai 2012). These papers involve many subjects – such as engineering geology, natural hazards, geoenvironment and geotechnical engineering – with a primary focus on

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geological engineering problems in coastal regions. The proceedings provide readers with the latest research results and engineering experiences from academic scientists, leading engineers and industry researchers who are interested in coastal engineering geology and the relevant fields. Yu Huang works at the Department of Geotechnical Engineering, Tongji University, China. Faquan Wu works at the Institute of Geology and Geophysics, Chinese Academy of

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Science, China and he is also the Secretary General of the International Association for Engineering Geology and the Environment. Zhenming Shi works at the Department of Geotechnical Engineering, Tongji University, China. Bin Ye works at the Department of Geotechnical Engineering, Tongji University, China. Hydrology covers the fundamentals of hydrology and hydrogeology, taking an environmental slant dictated by the emphasis in recent times for the remediation of

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contaminated aquifers and surface-water bodies as well as a demand for new designs that impose the least negative impact on the natural environment. Major topics covered include hydrological principles, groundwater flow, groundwater contamination and clean-up, groundwater applications to civil engineering, well hydraulics, and surface water. Additional topics addressed include flood analysis, flood control, and both ground-water and surface-water applications

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to civil engineering
design.

A thorough knowledge of geology is essential in the design and construction of infrastructures for transport, buildings and mining operations; while an understanding of geology is also crucial for those working in urban, territorial and environmental planning and in the prevention and mitigation of geohazards. Geological Engineering provides an inte

This book was prepared for

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publication by an International Working Group of experts under the auspices of COGEOENVIRONMENT - the Commission of the International Union of Geological Sciences (IUGS) on Geological Sciences for Environmental Planning and IUGS-GEM (Commission on Geosciences for Environmental Management). The main aim of the Working Group "Geology and Ecosystems" was to develop an interdisciplinary approach to the study of the mechanisms and special features within the

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"living tissue - inert nature" system under different regional, geological, and anthropogenic conditions. This activity requires international contributions from many scientific fields. It requires efforts from scientists specializing in fields such as: environmental impacts of extractive industries, anthropogenic development and medical problems related to geology and ecosystem interaction, the prediction of the geoenvironmental evolution

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of ecosystems, etc. The Working Group determined the goal and objectives of the book, developed the main content, discussed the parts and chapters, and formed the team of authors and the Editorial Board. The Meetings of the Working Group (Vilnius, Lithuania, 2002 and Warsaw-Kielniki, Poland, 2003) were dedicated to discussion and approval of the main content of all chapters in the Book. Summing up knowledge and understanding of engineering geology as it applies to the urban

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environment at the start of the 21st century, this volume demonstrates that: working standards are becoming internationalised; risk assessment is driving decision-making; geo-environmental change is becoming better understood; greater use of underground space is being made; and IT advances are improving subsurface visualization. --

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Engineering Geology for Tomorrow's Cities Basics for Engineers, Second Edition

This book analyses the state of the natural environment and the causes of its degradation using the biosphere approach. Further, those issues that must be resolved immediately on the global level are identified following the ideas defined by V.I. Vernadsky, and new principles of Man-Nature interaction are pursued. The modern world currently faces three global trends inducing biosphere degradation and the aggravation of ecological hazards, namely: a) rapid and uncontrolled growth of human population on the Earth and insufficient natural resources to sustain it; (b) technogenesis

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development; and (c) global climate change and the aggravation of natural disasters. Ecological safety and military security are becoming the crucial conditions for the survival of modern civilization. To mitigate the ecological strain on the Earth, the technogenesis strategy should be changed and many other pressing issues must be resolved. These problems should be addressed using the biosphere approach, because the individual human being is the biosphere constituent, and his or her safety cannot be provided without maintaining the entire natural system on our planet.

~The first of its kind to be applicable to the Indian environment, this comprehensive reference work uses the backdrop of geology to weave together components of earth process

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mechanisms, ecological systems, usage of earth resources such as land, soil, water and minerals and accelerated activities of people looking for facilities and engineering techniques to contain adverse consequences on the biosphere. Multidisciplinary in coverage and holistic in approach, the book discusses the causes of degradation of our environment alongside the implications of resource depletion and suggests ways and means of combating the problems. Salient features include: Resource management and restoration of environment by pursuing eco-development Coping with natural hazards and reducing risk factors Pursuing development through engineering measures without endangering ecosystems Alternative

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options of energy generation without threatening the landscape Global warming and problems of pollution and measures of combating it Lucid and comprehensive, this updated Second Edition will prove invaluable for planners, architects, practicing engineers, geologists, ecologists and students of geology, civil engineering, environmental engineering and ecology.

The field of geoengineering is at a crossroads where the path to high-tech solutions meets the path to expanding applications of geotechnology. In this report, the term "geoengineering" 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

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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 geoengineering 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. Geoengineers are poised to expand

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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.

Project planning is generally accepted as an important contributor to project success. However, is there research that affirms the positive impact of project planning and gives guidance on how much effort should be spent on planning? To answer these questions, this book looks at current literature and new research of this under-studied area of project management. The author presents his findings from an extensive review of project planning literature that covers more than 270 sources. He also discusses new research that analyzes data from more than 1,300 global projects. The book confirms that the time spent on

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planning activities reduces risk and significantly increases the chances of project success. It also concludes that there can be too much planning and shows that the optimum ratio of planning to effort is 25%. The book examines the impact of project planning on different industries. It discusses research in the construction and information technology (IT) industries, and presents a case study of how to plan and track a software development project. The book also looks at the impact of geography on project planning and success. Intended as a basic tool in the library of any project manager or general manager, this book brings to light project planning techniques and information that have never been published previously. It is an important resource on how to plan projects

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properly and propel your career forward.

Headlines continue to blare news of climate change, tangential catastrophic events, and dwindling energy resources. Written by respected practitioners, and geared to practitioners and students, Environmental Hydrogeology, Second Edition explores the role that hydrogeology can play in solving challenging environmental problems. New in the Second Edition: Coverage of groundwater recharging Exploration of geology of sink hole prone areas A case study of how salt-water springs were drawn down to manageable levels in the Red River Comprehensive Coverage from Trusted Experts The authors provide a complete introduction to the fast-growing and evolving field of

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environmental hydrogeology and its future. The second edition includes completely updated material and select new case studies. Matching the caliber of coverage found in the previous edition, the authors explore topics such as the geological aspects of disposal sites, surface water hydrogeology, groundwater hydrology and wells, environmental impacts and the hydrological system, and more. They also include types, sources, and properties of waste products, and propose waste management programs for groundwater protection. Explore Applications and Solutions Looming threats such as climate change, water pollution, acid rain, and air pollution extend beyond national boundaries and span the gaps between continents. An in-depth understanding of hydrogeology will be necessary to

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resolve these problems. Focusing on science rather than the regulations of any particular jurisdiction, the authors explore a variety of solutions and practical applications to issues such as groundwater recharging and protection.

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

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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 book is one out of 8 IAEG XII Congress volumes, and deals with the theme of urban geology. Along with a rapidly growing world population, the wave of urban growth continues, causing cities to swell and new metropolitan centers to emerge. These global trends also open new ventures for underground city development.

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Engineering geology plays a major role in facing the increasing issues of the urban environment, such as: finding aggregates for construction works; providing adequate water supply and waste management; solving building problems associated to geological and geomorphological conditions; evaluating host rock conditions for underground constructions; preventing or mitigating geological and seismic hazards. Furthermore, this book illustrates recent advancements in sustainable land use planning, which includes conservation, protection, reclamation and landscape impact of open pit mining and alternative power generation. The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze

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the dynamic role of engineering geology in our changing world and build on the four main themes of the congress: environment, processes, issues and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: 1. Climate Change and Engineering Geology 2. Landslide Processes River Basins 3. Reservoir Sedimentation and Water Resources 4. Marine and Coastal Processes Urban Geology 5. Sustainable Planning and Landscape Exploitation 6. Applied Geology for Major Engineering Projects 7. Education, Professional Ethics and Public Recognition of Engineering Geology 8. Preservation of Cultural Heritage

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There is a large and growing need for a textbook that can form the basis for integrated classes that look at minerals, rocks, and other Earth materials. Despite the need, no high-quality book is available for such a course. Earth Materials is a wide-ranging undergraduate textbook that covers all the most

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important kinds of (inorganic) Earth materials. Besides traditional chapters on minerals and rocks, this book features chapters on sediments and stratigraphy, weathering and soils, water and the hydrosphere, and mineral and energy deposits. Introductions to soil mechanics and rock mechanics are also included. This book steers away from the model of traditional encyclopedic science textbooks, but rather exposes students to the key and most exciting ideas and information, with an emphasis on thinking about Earth as a system. The book is written in such a manner as to support inquiry, discovery and other forms of

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active learning. All chapters start with a short topical story or vignette, and the plentiful photographs and other graphics are integrated completely with the text. Earth Materials will be interesting and useful for a wide range of learners, including geoscience students, students taking mineralogy and petrology courses, engineers, and anyone interested in learning more about the Earth as a system.

Geology - Basics for Engineers presents the physical and chemical characteristics of the Earth, the nature and the properties of rocks and unconsolidated deposits/sediments, the action of

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water, how the earth is transformed by various phenomena at different scales of time and space. The book shows the engineer how to take geological conditions into account in his projects, and how to exploit a wide range of natural resources in an intelligent way, reduce geological hazards, and manage subsurface pollution. Through a problem-based-learning approach, this instructional text imparts knowledge and practical experience to engineering students (undergraduate and graduate level), as well as to experts in the fields of civil engineering, environmental engineering, earth sciences,

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architecture, land and urban planning. The DVD that supplements the book contains solutions to the problems and animations that show additional facets of the living Earth. *The original French edition of the book (2007) won the prestigious Roberval Prize, an international contest organized by the University of Technology of Compiègne in collaboration with the General Council of Oise, France. Geology, Basics for Engineers, was selected out of a total of 110 candidates. The jury praised the book as a “very well conceived teaching textbook” and underscored its highly didactic nature, as well as the excellent

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quality of its illustrations.

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 from which to learn the principle components of engineering geology.

Provides a complete guide to the study, design, construction and management of landslide and

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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,

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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 ongoing population growth is resulting in rapid urbanization, new infrastructure development and increasing demand for the Earth's natural resources (e.g., water, oil/gas, minerals). This, together with the current climate change and increasing impact of natural hazards, imply that the engineering geology profession is

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called upon to respond to new challenges. It is recognized that these challenges are particularly relevant in the developing and newly industrialized regions. The idea beyond this volume is to highlight the role of engineering geology and geological engineering in fostering sustainable use of the Earth's resources, smart urbanization and infrastructure protection from geohazards. We selected 19 contributions from across the globe (16 countries, five continents), which cover a wide spectrum of applied interdisciplinary and multidisciplinary research, from geology to engineering. By

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illustrating a series of practical case studies, the volume offers a rather unique opportunity to share the experiences of engineering geologists and geological engineers who tackle complex problems working in different environmental and social settings. The specific topics addressed by the authors of chapters included in the volume are the following: pre-design site investigations; physical and mechanical properties of engineering soils; novel, affordable sensing technologies for long-term geotechnical monitoring of engineering structures; slope stability assessments and monitoring in

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active open-cast mines; control of environmental impacts and hazards posed by abandoned coal mines; assessment of and protection from geohazards (landslides, ground fracturing, coastal erosion); applications of geophysical surveying to investigate active faults and ground instability; numerical modeling of seabed deformations related to active faulting; deep geological repositories and waste disposal; aquifer assessment based on the integrated hydrogeological and geophysical investigation; use of remote sensing and GIS tools for the detection of environmental hazards and mapping of surface

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geology. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017.

Geosciences, Environment and Man has three major objectives, which determine the division in three parts of this volume: I. To consider the main natural geological processes interfering with and therefore threatening the activities of man: earthquakes, volcanic eruptions, land movements, floods, wind and coastal risks; main prevention and mitigation measures against these natural hazards are presented. II. To examine the exploitation of earth's natural resources such as

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materials, ores and minerals, fossil fuels, water, radioactivity, and the resulting consequences on solid Earth balance and future. III. To assess the hold level reached by the activities of man on planet surface envelopes through agriculture, urbanization, industrialization, and communication; the local to global effects of human influence triggered by recent demographic growth on underground, soils, water and air characters are taken into account. Both deteriorating and beneficial aspects of Earth - the interactions of man are emphasized, as well as mitigation or restoration measures and perspectives.

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Having originally defined the Environmental Geology course, this is considered the most comprehensive yet readable book for your course level. Keller continues to offer the most detailed, current research available. He covers a wide range of topics, discussing everything from fundamental geologic principles to the specifics of environmental law and geologic hazards, from a truly environmental perspective. The Ninth Edition emphasizes the engineering geology approach, especially in the discussion of soil and rock mechanics and landslides.

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