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Subject Area: Engineering and Materials Duration of Peer Review: 5.0 month(s) Result: Accepted after revision Write a review: Reviewed 2015-11-04 14:44:07 Journal review is fast: May submission - August return to October - October Published in December. The quality of journal articles is also ok, and there are better journals in the geology.

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Engineering Geology is an international interdisciplinary journal bridging the fields of the earth sciences and engineering, particularly geological and geotechnical engineering. The focus of the journal is on geological or engineering studies that are of interest to engineering geologists, whether their initial training is in geology or civil/mining engineering.

[Engineering Geology - Journal - Elsevier](#)

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Define Engineering Geology? How the geological drawbacks play a major role in construction failures? 5. Explain the geological causes for failure dams Quote a few case histories. Essay Questions: 1. Explain what is weathering and its importance in civil engineering constructions?

~~ENGINEERING GEOLOGY IMPORTANT QUESTIONS UNIT - I Short ...~~

The International Association for Engineering Geology and the Environment (French: Association Internationale de Géologie de l'Ingénieur et de l'Environnement), formerly International Association for Engineering Geology, also known as IAEG (French: AIGI), is an international scientific society which was founded in 1964. It is affiliated with the International Union of Geological Sciences ...

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An engineering geologist is a geologist trained in the discipline of engineering geology. Many organizations and governments have programs for the qualification, testing and certification of engineering geologists as a protection to the public.

~~Engineering geologist - Wikipedia~~

Geological engineering is an interdisciplinary field that combines the principles of engineering with the study of geology and the Earth's systems. Students gain a foundational understanding of...

~~Geological Engineering Education and Training Program ...~~

The graduate geological engineering program at the University of North Dakota provides access to the region's most comprehensive set geological samples. Areas of geological research emphasis include: Hydrogeology and environmental geology. Economic geology of petroleum, coal and mineral resources.

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Engineering Geology is the application of geosciences to engineering studies. It deals with the fields of earth science and engineering, particularly geotechnical and geological engineering. An individual who undergoes education in this field is known as an Engineering Geologist and he or she provides recommendations on geological and geotechnical aspects such as location, design, manufacturing, and O&M of engineering works.

~~Petropedia - What is Engineering Geology? - Definition ...~~

Yukiko KUSANO, Koichi SUZUKI, Tomochika TOKUNAGA, Study on the Subsurface Distribution of Saltwater and Freshwater in the Nakano-Shima Island, Oki-Dozen, by Electromagnetic Exploration, Journal of the Japan Society of Engineering Geology, 10.5110/jjseg.57.2, 57, 1, (2-14), (2016).

~~SOME RESULTS OF THE GEOELECTRICAL RESISTIVITY METHOD IN ...~~

ELSEVIER Engineering Geology 37 (1994) 5-14 ~NG GEOLOGY The Netherlands without engineering geology: No lands E.F.J. de Mulder Geological Survey of The Netherlands, P.O. Box 157, 2000 AD Haarlem, The Netherlands (Revised version accepted October 20, 1993) Abstract De Mulder, E.F.J., 1994. The Netherlands without engineering geology: No lands.

No engineering structure can be built on the ground or within it without the influence of geology being experienced by the engineer. Yet geology is an ancillary subject to students of engineering and it is therefore essential that their training is supported by a concise, reliable and usable text on geology and its relationship to engineering. In this book all the fundamental aspects of geology are described and explained, but within the limits thought suitable for engineers. It describes the structure of the earth and the operation of its internal processes, together with the geological processes that shape the earth and

produce its rocks and soils. It also details the commonly occurring types of rock and soil, and many types of geological structure and geological maps. Care has been taken to focus on the relationship between geology and geomechanics, so emphasis has been placed on the geological processes that bear directly upon the composition, structure and mechanics of soil and rocks, and on the movement of groundwater. The descriptions of geological processes and their products are used as the basis for explaining why it is important to investigate the ground, and to show how the investigations may be conducted at ground level and underground. Specific instruction is provided on the relationship between geology and many common activities undertaken when engineering in rock and soil.

This book compiles the first part of contributions to the China–Europe Conference on Geotechnical Engineering held 13.-16. August 2016 in Vienna, Austria. About 400 papers from 35 countries cover virtually all areas of geotechnical engineering and make this conference a truly international event. The contributions are grouped into thirteen special sessions and provide an overview of the geotechnical research and practice in China, Europe and the world: · Constitutive model · Micro-macro relationship · Numerical simulation · Laboratory testing · Geotechnical monitoring, instrumentation and field test · Foundation engineering · Underground construction · Environmental geotechnics · New geomaterials and ground improvement · Cold regions geotechnical engineering · Geohazards – risk assessment, mitigation and prevention · Unsaturated soils and energy geotechnics · Geotechnics in transportation, structural and hydraulic Engineering

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. 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 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

The second edition of this well established book provides a readable and highly illustrated overview of the main facets of geology for engineers. Each topic is presented as a double-page spread with a careful mix of text, tables, and diagrams. Comprehensively updated, and with four new sections, "Foundations of Engineering Geology" covers the entire spectrum of topics of interest to both student and professional.

The Channel Tunnel has been called the greatest engineering project of the century, overcoming a unique set of financial, political and engineering challenges. This book provides a comprehensive insight into the events which culminated in the first dry link between Britain and France. It describes the relationship between the site investigation, data interpretation and construction of the works. It examines areas such as the difficulties inherent in predicting geology from a relatively small number of boreholes and revealing how the use of modern geophysical techniques.

"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 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 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.

This book is one out of 8 IAEG XII Congress volumes, and deals with Landslide processes, including: field data and monitoring 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 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 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 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 Recognition of Engineering Geology. Preservation of Cultural Heritage.

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 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 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

The present state of the art of dam engineering has been monumental, and political factors, which, though important, attained by a continuous search for new ideas and methods are covered in other publications. While incorporating the lessons of the past. In the last 20 The rapid progress in recent times has resulted from the years particularly there have been major innovations, due combined efforts of engineers and associated scientists, as largely to a concerted effort to blend the best of theory and exemplified by the authorities who have contributed to this practice. Accompanying these achievements, there has been book. These individuals have brought extensive knowledge a significant trend toward free interchange among the pro to the task, drawn from experience throughout the world. Professional disciplines, including open discussion of prob With the convergence of such distinguished talent, the problems and their solutions. The inseparable relationships of opportunity for accomplishment was substantial. I gratefully hydrology, geology, and seismology to engineering have acknowledge the generous cooperation of these writers, and been increasingly recognized in this field, where progress am indebted also to other persons and organizations that is founded on interdisciplinary cooperation. have allowed reference to their publications; and I have This book presents advances in dam engineering that attempted to acknowledge this obligation in the sections have been achieved in recent years or are under way. At where the material is used. These courtesies are deeply attention is given to practical aspects of design, construction, appreciated.

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