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Economic Geology

This book offers advanced geology students an in-depth, quantitative approach to engineering geology, 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; and hydrological concerns, ground water, and fluvial and coastal processes. More than 100 figures illustrate the concepts, and the author provides over 1,000 references. This widely-acclaimed textbook has been completely revised and updated to include analyses of recent geologic disasters, including: the Loma Prieta, Northridge, and Kobe earthquakes; Hurricane Andrew; and the Mississippi floods of 1993.

Engineering Geology

Bibliography of Engineering Seismology

Principles of Engineering Geology and Geotechnics

New Zealand Engineering

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.

Bulletin

Proceedings of the Second International Congress of the International Association of Engineering Geology, São Paulo, 18-24 August, 1974, Brazil

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

Engineering Geology and Construction

Principles of Engineering Geology

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

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Engineering Geology and Geotechnics discusses engineering survey methods. The

book is comprised of 12 chapters that cover several concerns in engineering, such as building foundations, slopes, and construction materials. Chapter 1 covers site investigation, while Chapter 2 tackles geophysical exploration. Chapter 3 deals with slope and open excavation, while Chapter 4 discusses subsurface excavation. Foundation for buildings, reservoir, and dams and dam sites are also covered in the book. A chapter then tackles hydrogeology and underground water supply. The text also encompasses river and beach engineering. The last two chapters cover engineering seismology and construction materials. This book will be of great use to researchers, practitioners, and students of engineering.

The Encyclopedia of Applied Geology

Textbook of Engineering Geology presents study of geology comprehensively from a civil engineering point of view. The author contends that mere technical perfection cannot ensure the safety and success of large-scale civil engineering constructions such a

Principles of Engineering Geology and Geotechnics: Geology Soil and Rock Mechanics and Other Earth Sciences as Used in Civil Engineering

This book offers a practical reference guide to soft rock mechanics for engineers and scientists. Written by recognized experts, it will benefit professionals, contractors, academics, researchers and students working on rock engineering projects in the fields of civil engineering, mining and construction engineering. Soft Rock Mechanics and Engineering covers a specific subject of great relevance in Rock Mechanics - and one that is directly connected to the design of geotechnical structures under difficult ground conditions. The book addresses practical issues related to the geomechanical properties of these types of rock masses and their characterization, while also discussing advances regarding in situ investigation, safety, and monitoring of geotechnical structures in soft rocks. Lastly, it presents important case histories involving tunnelling, dam foundations, coal and open pit mines and landslides.

Engineering Geology

Now in full colour, the third edition of this well established book provides a readable and highly illustrated overview of the aspects of geology that are most significant to civil engineers. Sections in the book include those devoted to the main rock types, weathering, ground investigation, rock mass strength, failures of old mines, subsidence on peats and clays, sinkholes on limestone and chalk, water in landslides, slope stabilization and understanding ground conditions. The roles of both natural and man-induced processes are assessed, and this understanding is

developed into an appreciation of the geological environments potentially hazardous to civil engineering and construction projects. For each style of difficult ground, available techniques of site investigation and remediation are reviewed and evaluated. Each topic is presented as a double page spread with a careful mix of text and diagrams, with tabulated reference material on parameters such as bearing strength of soils and rocks. This new edition has been comprehensively updated and covers the entire spectrum of topics of interest for both students and practitioners in the field of civil engineering.

Principles of Engineering Geology

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.

Engineering Geology

Textbook of Engineering Geology

Foundation Engineering is of prime importance to undergraduate and postgraduate students of civil engineering as well as to practising engineers. For, there is no construction - be it buildings (government, commercial and residential), bridges, highways, or dams - that does not draw from the principles and application of this subject. Unlike many textbooks on Geotechnical Engineering that deal with both Soil Mechanics and Foundation Engineering, this text gives an exclusive treatment and an indepth analysis of Foundation Engineering. What distinguishes the text is that it not merely equips the students with the necessary knowledge for the course and examination, but provides a solid foundation for further practice in their profession later. In addition, as the book is based on the Codes prescribed by the Bureau of Indian Standards, students of Indian universities will find it particularly useful. The author is specialized in both Soil Mechanics and Structural Engineering; he studied Soil Mechanics under the guidance of Prof. Terzaghi and Prof.

Casagrande of Harvard University - the pioneers of the subject. Similarly, he studied Structural Engineering under Prof. A.L.L. Baker of Imperial College, London, the pioneer of Limit State Design. These specializations coupled with over 50 years of teaching experience of the author make this text authoritative and exhaustive. Intended as a text for undergraduate (Civil Engineering) and postgraduate (Geotechnical Engineering and Structural Engineering) students, the book would also be found highly useful to practising engineers and young academics teaching the course.

Practical Engineering Geology

Economic Geology and the Bulletin of the Society of Economic Geologists

Contributions to Engineering Geology

Engineering Geology

The Encyclopedia of Applied Geology is an international compendium of engineering geology topics prepared by experts from many countries. The volume contains more than eighty main entries in alphabetical order, dealing with hydrology, rock structure monitoring and soil mechanics in addition to engineering geology. Special topics focus on earth science information and sources, electrokinetics, forensic geology, geocryology, nuclear plant siting, photogrammetry, tunnels and tunnelling, urban geomorphology and well data systems.

Engineering Geology and Rock Mechanics

A Geology for Engineers

Petroleum Reservoir Engineering: Physical properties

Principles of Engineering Geology

Philippine Mining Journal

Bulletin

This book deals with both the principles as well as practices of engineering geology. It will serve as a basic course material for undergraduate students of civil engineering, graduate students of geology and applied geology, and field practitioners. Use of simple language, lucid expression, self-explanatory illustrations and excellent pedagogy makes this book very useful. Salient Features

- The book gives a comprehensive coverage on mineralogy, petrology and geophysical investigations
- Coverage on Emerging trends – Remote Sensing and GIS
- Colored photographs and self-explanatory illustrations for better understanding of topics

Engineering Geology Case Histories

Bulletin - Association of Engineering Geologists

Keeping this in mind, the present book is designed by the author based on his vast

experience spanning about four decades, as a basic first course, in particular, to the students of Civil Engineering. The contents of the book are dealt under eleven chapters.

Bulletin of the Mineral Research and Exploration

FOUNDATION ENGINEERING

ENVIRONMENTAL AND ENGINEERING GEOLOGY -Volume I

Principles of Engineering Geology and Geotechnics

Overseas Geology and Mineral Resources

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

Exploration Geophysics

Case-histories in Engineering Geology

Soft Rock Mechanics and Engineering

Winner of the 2004 Claire P. Holdredge Award of the Association of Engineering Geologists (USA). The only book to concentrate on the relationship between geology and its implications for construction, this book covers the full scope of the subject from site investigation through to the complexities of reservoirs and dam sites. Features include international case studies throughout, and summaries of accepted practice, plus sections on waste disposal, and contaminated land.

Tennessee Highway Conference, Proceedings

Proceedings of the Annual Tennessee Highway Conference

'Engineering geology' is one of those terms that invite definition. The American Geological Institute, for example, has expanded the term to mean 'the application of the geological sciences to engineering practice for the purpose of assuring that the geological factors affecting the location, design, construction, operation and maintenance of engineering works are recognized and adequately provided for'. It has also been defined by W. R. Judd in the McGraw-Hill Encyclopaedia of Science and Technology as 'the application of education and experience in geology and other geosciences to solve geological problems posed by civil engineering structures'. Judd goes on to specify those branches of the geological or geosciences as surface (or surficial) geology, structural/fabric geology, geohydrology, geophysics, soil and rock mechanics. Soil mechanics is firmly included as a geological science in spite of the perhaps rather unfortunate trends over the years (now happily being reversed) towards purely mechanistic analyses which may well provide acceptable solutions for only the simplest geology. Many subjects evolve through their subject areas from an interdisciplinary background and it is just such instances that pose the greatest difficulties of definition. Since the form of educational development experienced by the practitioners of the subject ultimately bears quite strongly upon the corporate concept of the term 'engineering geology', it is useful briefly to consider that educational background.

Foundations of Engineering Geology

Engineering Geology and Geotechnics

Engineering Geology will serve as a textbook for the undergraduate and postgraduate students of engineering geology, applied geology, mining and civil engineering. It will also serve as a reference text for civil engineers and professional geologists.

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