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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 new 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. This volume addresses the multi-disciplinary topic of engineering geology and the environment, one of the fastest growing, most relevant and applied fields of research and study within the geosciences. It covers the fundamentals of geology and engineering where the two fields overlap and, in addition, highlights specialized topics that address principles, concepts and paradigms of the discipline, including operational terms, materials,

tools, techniques and methods as well as processes, procedures and implications. A number of well known and respected international experts contributed to this authoritative volume, thereby ensuring proper geographic representation, professional credibility and reliability. This superb volume provides a dependable and ready source of information on approximately 300 topical entries relevant to all aspects of engineering geology. Extensive illustrations, figures, images, tables and detailed bibliographic citations ensure that the comprehensively defined contributions are broadly and clearly explained. The Encyclopedia of Engineering Geology provides a ready source of reference for several fields of study and practice including civil engineers, geologists, physical geographers, architects, hazards specialists, hydrologists, geotechnicians, geophysicists, geomorphologists, planners, resource explorers, and many others. As a key library reference, this book is an essential technical source for undergraduate and graduate students in their research. Teachers/professors can rely on it as the final authority and the first source of reference on engineering geology related studies as it provides an exceptional resource to train and educate the next generation of practitioners. 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 Professionals and students in any geology-related field will find this an essential reference. It clearly and systematically explains underground engineering geology principles, methods, theories and case studies. The authors lay out engineering problems in underground rock engineering and how to study

and solve them. The book specially emphasizes mechanical and hydraulic couplings in rock engineering for wellbore stability, mining near aquifers and other underground structures where inflow is a problem. Provides an up-to-date and comprehensive coverage of the theory, background and practical application of environmental and engineering geology. Contains an impressive amount of information with numerous illustrations, drawing on the combined 90 years experience of the two authors. This book focuses on topics closely related to geological structures and hazards associated with rock constructions. It studies in detail geological masses, field tests, and ground improvement. Chapters discuss various geological investigations in the road, dam, and water reservoir construction. 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

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 properly and propel your career forward. 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 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 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 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 geology. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017. This seasoned textbook introduces geology for civil engineering students. It covers minerals and rocks, superficial deposits and the distribution of rocks at or below the surface. It then looks at groundwater and gives guidance on the exploration of a site before looking at the civil engineering implications of rocks and the main geological factors which affect typical engineering projects. *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 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 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. *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 geoinformatics. 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. 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. 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 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 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 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, 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. 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. Fundamentals of Engineering Geology discusses geomorphological processes, particularly the linkages between geology, geo-technics, rock mechanics, soil

mechanics, and foundation design. The book reviews igneous rocks, metamorphic rocks, sedimentary rocks, and stratigraphy. Stratigraphy is based on three fundamental principles, namely, the "Law of Superposition, the "Law of Faunal Succession Geology is the science of earth's crust (lithosphere) consisting of rocks and soils. While mining and mineralogical engineers are more interested in rocks, their petrology (formation) and mineralogy, civil engineers are equally interested in soils and rocks, in their formations, and also in their properties for civil engineering design and construction. This book is so written that the subject can easily be taught by a civil engineering faculty member specialised in soil mechanics. Dexterously organized into four parts, this book in Part I (Chapters 1 to 11) deals with the formation of rocks and soils. The classification of soils, lake deposits, coastal deposits, wind deposits along with marshes and bogs are described in Part II (Chapters 12 to 20). As the book advances, it deals with the civil engineering problems connected with soils and rocks such as landslides, rock slides, mudflow, earthquakes, tsunami and other natural phenomena in Part III (Chapters 21 to 24). Finally, in Part IV (Chapters 25 to 30), this text discusses the allied subjects like the origin and nature of cyclones, rock mass classification and soil formation. Designed to serve as a textbook for the undergraduate students of civil engineering, this book is

equally useful for the practising civil engineers. SALIENT FEATURES : Displays plenty of figures to clarify the concepts Includes chapter-end review exercises to enhance the problem-solving skills of the students Summary at the end of each chapter brings into focus the essence of the chapter Appendices at the end of the text supply extra information on important topics Developments in Engineering Geology is a showcase of the diversity in the science and practice of engineering geology. All branches of geology are applicable to solving engineering problems and this presents a wide frontier of scientific opportunity to engineering geology. In practice, diversity represents a different set of challenges with the distinctive character of the profession derived from the crossover between the disciplines of geology and engineering. This book emphasizes the importance of understanding the geological science behind the engineering behaviour of a soil or rock. It also highlights a continuing expansion in the practice areas of engineering geology and illustrates how this is opening new frontiers to the profession thereby introducing new knowledge and technology across a range of applications. This is initiating an evolution in the way geology is modelled in engineering, geohazard and environmental studies in modern and traditional areas of engineering geology. 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 interpretation of the geological setting, integrating geological conditions into engineering design and construction, and provides engineering solutions that take into account both ground conditions and environment. This textbook, extensively illustrated with working examples and a wealth of graphics, covers the subject area of geological engineering in four sections: Fundamentals: soil mechanics, rock mechanics and hydrogeology Methods: site investigations, rock mass characterization and engineering geological mapping Applications: foundations, slope stability, tunnelling, dams and reservoirs and earth works Geohazards: landslides, other mass movements, earthquake hazards and prevention and mitigation of geological hazards As well as being a textbook for graduate and postgraduate students and academics, Geological Engineering serves as a basic reference for practicing engineering geologists and geological and geotechnical engineers, as well as civil and mining engineers dealing with design and construction of foundations, earth works and excavations for infrastructures, buildings, and mining operations. Engineering Geology attempts to provide an

understanding of relations between the geology of a building site and the engineering structure. It presents examples taken from real-life experience and practice to provide evidence for the significance of engineering geology in planning, design, construction, and maintenance of engineering structures. The book begins with an introduction of geological investigations, distinguishing between the reconnaissance investigation, the detailed investigation, and investigation during construction. It then explains the significance of geological maps and sections; the mechanical behavior of rocks; subsurface investigation for engineering construction; and geophysical methods. The remaining chapters discuss the physical and chemical weathering of rocks; slope movements; and geological investigations for buildings, roads and railways, tunnels, and hydraulic structures. This book is intended particularly for civil engineering students and students of engineering geology in the university faculties of natural sciences. It describes geological features so as to be comprehensible to Technical College students and to explain construction problems intelligibly for geology students. The book will also be of assistance to planners, civil engineers, and graduate engineering geologists. Bridges the Gap between Geology and Ground Engineering High-quality geological models are crucial for ground engineering projects, but many engineers

are not always at ease with the geological terminology and analysis presented in these models, nor with their implications and limitations. Project engineers need to have a sound comprehension of the geological models presented to them, and to be able to discuss the models in so far as they might impinge on the design, safety and possible budgetary or time constraints of the project. They should also fully understand how site investigation data and samples are used to develop and substantiate geological models. Geology for Ground Engineering Projects provides a comprehensive presentation of, and insight into, the critical geological phenomena that may be encountered in many engineering projects, for example rock contact relationships, weathering and karst phenomena in tropical areas, composition of fault zones and variability of rock discontinuities. Examples are provided from around the world, including Southeast Asia, Europe, North and South America, China and India. Comprehensive and well-illustrated, this definitive book: Describes the important geological phenomena that could affect ground engineering projects Provides a practical knowledge-base for relevant geological processes Addresses common geological issues and concerns Rocks are described in relation to the environment of their formation, highlighting the variation in composition, distribution and geotechnical properties that can be expected within a

variety of rock associations. Case studies, where geology has been a vital factor, are included. These are written by the project engineers or geologists responsible for the projects. Geology for Ground Engineering Projects is well illustrated with color diagrams and photographs. Readers are directed to satellite images of selected areas to explore for themselves many of the geological features described in this book. The second edition of this well established book provides a readable and highly illustrated 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. A compilation of papers describing the geology, engineering properties and the hazards and design issues associated with the substrata of Melbourne and its surrounds. It includes the area from Geelong to Bacchus Marsch to the Dandenongs and Mornington Peninsula. The Engineering Group of the Geological Society Working Party brought together experts in glacial and periglacial geomorphology, Quaternary history, engineering geology and geotechnical engineering to establish best practice when working in former glaciated and periglaciated environments. The Working Party addressed outdated terminology and reviewed the latest academic research to provide an up-to-date understanding of glaciated and

periglaciated terrains. This transformative, state-of-the-art volume is the outcome of five years of deliberation and synthesis by the Working Party. This is an essential reference text for practitioners, students and academics working in these challenging ground conditions. The narrative style, and a comprehensive glossary and photo-catalogue of active and relict sediments, structures and landforms make this material relevant and accessible to a wide readership. First edition 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. Using an engineer's perspective, it offers a concrete account of the basic facts and experiences regarding the behavior of different rock types in engineering construction. Details geological exploration techniques, stressing drilling and logging core samples. The construction of tunnels involves the resolution of various complex technical problems depending on the geological and geological-environmental context in which the work fits. Only a careful analysis of all the geological and geological-environmental issues and a correct reconstruction of the conceptual model can lead to optimal design solutions from all points of view (including financial) and ensure the safety of workers during the construction and users in the operation phase. It was therefore felt that there was a need to collect in one volume the state of current knowledge about: all the geological and environmental issues related to the construction of underground works the different methodologies used for the reconstruction of the

conceptual model the different risk typologies that it is possible to encounter or that can arise from tunnel construction, and the most important risk assessment, management and mitigation methodologies that are used in tunneling studies. '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 geo-sciences 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. Excerpt from Engineering Geology There are probably but few people of observation and practical experience who doubt the value of proper geological training for the engineer, since he must be prepared to meet and often to solve many problems which involve geological principles. For such knowledge it is necessary that the engineer should have adequate training in at least those fundamental principles of geology which relate to engineering problems. Among the important questions which the engineer has to consider are the character of the common rocks in their use for building stone and road material; the structure of rocks in relation to tunneling operations, dam and reservoir foundations, landslides, etc.; the geological conditions affecting and controlling underground water supplies; the relation of soils to sewage disposal and water purification, etc. Moreover, some familiarity with such materials as fuels (coal, oil and gas), clays, cements, etc., is also necessary. There may be difference of opinion as to whether the civil engineer should be grounded in abstract geological principles and afterwards allowed to apply them in the field, or whether

the exposition of the necessary principles should be illustrated in each instance by actual cases, which show the application of the principle. The first method does not usually appeal to those who have had much practical experience, nor does it find much favor with the engineering student; moreover, it can hardly be considered successful from the pedagogic standpoint. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works. Engineering geology is an interdisciplinary subject concerned with the application of geological science to engineering practice, and it is therefore important for the engineering geologist to recognize the boundary between engineering application and purely scientific enquiry. Much research in applied clay science results from imperfectly understood engineering behaviour.

Engineering geology is most closely allied to the geotechnical and materials areas of civil engineering. The scope of the present book is limited to the influence of clay but because clay is almost ubiquitous in earth materials the subject still remains broad. In soil and rock, clay is the smallest size fraction, but it is that very fact which often determines its major influences on engineering behaviour. In this book the author reviews the importance of clay in engineering geology and summarizes present knowledge in this field. The plan of the book has remained unchanged since the first edition was published in 1968 but the text, diagrams and reference lists have all been extensively updated. The first 5 chapters review the classification, origin, composition, fabric and physical chemistry of clays. 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. This book is one out of 8 IAEG XII Congress volumes and deals with climate change affecting different natural processes and environments, such as slope dynamics, water

courses, coastal and marine environments, hydrological and littoral processes and permafrost terrain. Due to climate change, major effects are also expected on territorial planning and infrastructure, particularly in extreme climate regions. The volume and its contents aim to analyze the role of engineering geology and the solutions it may offer with respect to the ongoing environmental changes. Contributions regard the modeling of both the factors and the effects induced by climate change. Potential impacts of the climate change on the common practice and routine work of engineering geologists are also analyzed, with particular attention to the risk assessment and mitigation procedures and to the adaptation measures adopted. 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. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. "This book exemplifies the vital role of environmental geology and geological processes in understanding the physical environment and the influence and fundamental importance of engineering geology in our modern world, particularly the infrastructure, whether it be foundations, routeways or reservoirs." "The influence of geohazards, the significance of soil and water resources, and the impact of mining, waste disposal and pollution/contamination on the environment are all examined. The various aspects of

construction that are involved in the development of the infrastructure are also discussed - land evaluation and geological construction materials are therefore taken account of in this context. Basic Environmental and Engineering Geology provides a wealth of practical examples and a comprehensive suggested reading list is provided for each chapter which will make it a vital tool for advanced undergraduates and postgraduates in geology, engineering geology, civil engineering, physical geography and environmental science and planning. Environmental geologists, environmental scientists, managers and planners including civil engineers, builders and architects will also find this book of immense value."--BOOK JACKET

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