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engineering geology is a multidisciplinary subject which interacts with other disciplines such as mineralogy petrology structural geology hydrogeology seismic engineering rock engineering soil mechanics geophysics remote sensing rs gis gps environmental geology etc engineers require a deeper understanding interpretation and analyses of earth sciences before suggesting engineering designs and remedial measures to combat natural disasters such as earthquakes volcanoes landslides debris flows tsunamis and floods this book covers all aspects of engineering geology and is intended to serve as a reference for practicing civil engineers and mining engineers engineering geology has also been designed as a textbook for students pursuing undergraduate and postgraduate courses in advanced applied geology and earth sciences a plethora of examples and case studies relevant to the indian context have been included for better understanding of the geological challenges faced by engineers

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

this work covers the spectrum of the activities of the engineering geologist in construction projects a series of commissioned papers are featured in the book to add balance to the topics covered these include papers on highway engineering engineering geology and natm techniques a concluding paper exploring in general terms the input engineering geologists should have on construction projects and their future professional development is also included

engineering geology is a major introductory text by an internationally renowned engineering geologist aimed primarily at students of civil and mining engineering the book will also be adopted for engineering geology sections of earth science courses in addition practising civil engineers will find it a useful source of reference

excerpt from engineering geology for some years the authors of this book have been giving to students of civil engineering in their respective universities a special course in geology as applied to engineering the method followed by them has met with much success and since the plan adopted has gradually been put into operation at other universities it has encouraged them to believe that it might be of service to others to prepare the present work 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 the authors have attempted to emphasize throughout the book the practical application of the topics treated to engineering work because hitherto in many engineering courses of study the subject of geology has not been given the attention which they think it should receive from both professors and students about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at 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

David Price had written the greater part of this book by the time he died it has been completed by his colleagues as a tribute to the many contributions he made to the subject of engineering geology through his professional and academic life David graduated from the University of Wales in 1954 with the degree of geology with mathematics and physics joined the overseas division of the Geological Survey and was despatched to what was then British Guiana to map economic mineral reserves and construction materials he returned to the UK in 1958 to join the construction company George Wimpey the post war boom was beginning and David was engaged as an engineering geologist in those days industry appreciated the need for research as little was known for the tasks that had to be completed and David joined a remarkable group of scientists and engineers at Wimpey's central laboratory at Hayes the young reader can best visualise this as an industrial university at that time formal education and training in engineering geology did not exist and as David recalled no one really knew what they were doing we followed the principles of our subject used common sense learnt from what happened on site and talked to those who seemed to know more than we on the subject in hand it was David's generation that established engineering geology as we now know it in the UK and he played a full part in its foundation

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

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

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

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

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

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 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 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 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 text is directed at the heart of engineering geology where geology is used to identify potential problems arising from ground conditions it describes how to investigate those conditions and to define an engineering response that will either avoid or reduce or even eliminate the problems revealed the book presents the big picture that is so often lacking when only site details are available but necessary for adequate engineering solutions

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

this fourth volume of five from the june 1997 conference was much

delayed the first four volumes were published in 1997 it comprises 23 special lectures solicited for the conference on various aspects of problematic soils natural and man made hazards urban and regional planning waste disposal mines and quarries large engineering works and protection of geological geographical historical and architectural heritage there is no subject index annotation copyrighted by book news inc portland or

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

summing up knowledge and understanding of engineering geology as is applies to the urban 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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