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## Class 03 ~~Civil Engineering Geology Notes~~

Engineering Geology is an international interdisciplinary journal bridging the fields of the earth sciences and engineering, particularly geological and geotechnical engineering. Engineering geology is the application of geological knowledge in engineering works. It has wide applications in various engineering fields especially in urban planning and expansion. Site investigation for major structures such as dams, factories, and heavy buildings is one of the main parts of engineering ...

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## ~~Civil Engineering Geology and Geological Engineering Lectures~~

Relevance of geology to civil engineering  
Most civil engineering projects involve some excavation of soils and rocks, or involve loading the Earth by building on it. In some cases, the excavated rocks may be used as constructional material, and in others, rocks may form a major part of the finished product, such as a motorway cutting or the site of a reservoir.

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application of the geology to engineering study for the purpose of assuring that the geological factors regarding the location, design, construction, operation and maintenance of engineering works are recognized and accounted for.

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Engineering Geology provide geological and geotechnical recommendations. It mostly Performed during the planning phases of any project to understand the geological features of the site. Useful for environmental impact

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analysis, Rock analysis etc; Helps to protect life and property from damage caused by different geological conditions.

~~Engineering Geology - Civilok - Brief description and Notes~~

Geology in civil engineering - branches of geology - structure of earth and its composition weathering of rocks - scale of weathering - soils - landforms and processes associated with river, wind, groundwater and sea - relevance to civil engineering. Plate tectonics - Earth quakes - Seismic zones in India.

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Engineering geology on the statutes of IAEG is defined as the science devoted to investigation, study and solution of environmental and engineering problems which may arise due to the interaction between the geology and human activities and also the prediction of or development of measures to control such hazards. Compiled by: Abhash Acharya. Bibliography: Dhar, M.S. and Ghimire, P.C., 2006, Engineering Geology,

~~Geology and Civil Engineering Notes +  
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Engineering geophysics is a branch of

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exploration geophysics, which aims at solving civil engineering problems by interpreting subsurface geology of the area concerned. Electrical resistivity methods and seismic refraction methods are commonly used in solving civil engineering problems. Geohydrology: This may also be called hydrogeology.

## ~~Engineering Geology~~

Geological processes continually modify the Earth's surface, destroy old rocks, create new rocks and add to the complexity of ground conditions. Cycle of Geology encompasses all

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the major processes, which must be cyclic, or they would grind to an inevitable halt. Land : Mainly erosion and rock destruction.

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Engineering geological maps and plans are used mainly for planning and civil engineering purposes. They provide planners and engineers with information which assists them in the planning of use of land, and the location, construction and maintenance of engineering structures of all types.



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Engineering geology: This deals with the application of geological knowledge in the field of civil engineering, for execution of safe, stable and economic constructions like dams, bridges and tunnels.

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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.

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

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(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

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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

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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

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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



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engineering, geohazard and environmental studies in modern and traditional areas of engineering geology.

Geologists and civil engineers related to infrastructure planning, design and building describe professional practices and engineering geological methods in different European infrastructure projects.

This volume comprises select papers presented during TRANSOILCOLD 2019. It covers the challenges and problems faced by engineers, designers, contractors, and infrastructure

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owners during planning and building of transport infrastructure in Arctic and cold regions. The contents of this book will be of use to researchers and professional engineers alike.

This volume comprises select peer reviewed papers presented at the international conference - Advanced Research and Innovations in Civil Engineering (ARICE 2019). It brings together a wide variety of innovative topics and current developments in various branches of civil engineering. Some of the major topics covered include

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structural engineering, water resources engineering, transportation engineering, geotechnical engineering, environmental engineering, and remote sensing. The book also looks at emerging topics such as green building technologies, zero-energy buildings, smart materials, and intelligent transportation systems. Given its contents, the book will prove useful to students, researchers, and professionals working in the field of civil engineering.

Summing up knowledge and understanding of engineering geology as it applies to the

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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. --

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

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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

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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.

This volume comprises select papers presented

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during the Indian Geotechnical Conference 2018. This volume discusses construction challenges and issues in geotechnical engineering. The contents cover foundation design and analysis, issues related to geotechnical structures, including dams, retaining walls, embankments and pavements, and rock mechanics and construction in rocks and rocky environments. Many of the papers discuss live case studies related to important geotechnical engineering projects worldwide, providing useful insights into the realistic designs and constructions. This volume will be of interest to students,

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researchers and practitioners alike.

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