

## Engineering Geology Parbin Singh

Heat & Mass Transfer 2E Engineering & General Geology Hydrology Trends in Objective Geology: For Civil Services & Other Competitive Exams Over 3500 Solved Objective Questions, 3e Concrete Technology ENGINEERING GEOLOGY FOR CIVIL ENGINEERS A Text Book Of Geology Structural Analysis-I, 4th Edition BUILDING MATERIALS ENGINEERING GEOLOGY FOR CIVIL ENGINEERS A Textbook of Geology Remote Sensing Geology Courses in Mining Geology India After Gandhi A text Book of Engineering and General Geology Surveying and Levelling Theory of Structures National Catalogue of University Level Books, 1971 Ground Water Assessment Foundations of Engineering Geology Engineering Geology for Society and Territory - Volume 6 Engineering and General Geology Books India Tropical Geomorphology Engineering in Rocks for Slopes, Foundations and Tunnels Fundamentals of Engineering Geology Engineering Geology A Textbook of Engineering and General Geology A Textbook of Fluid Mechanics and Hydraulic Machines Textbook of Physical Geology Textbook of Engineering Geology Engineering Geology Geology for Civil Engineers Principles of Engineering Geology Watershed Management Bulletin of the Institution of Engineers (India). Raw Materials Update A Geology for Engineers Surveying Vol. I Earth Materials

### Heat & Mass Transfer 2E

A comprehensive, self-sufficient and up-to-date text providing complete information on various aspects of groundwater assessment, development and management. It gives a balanced presentation of theory and field practice using a multidisciplinary approach to aid in solving problems from a variety of data bases. The coverage in this book includes: Aquifer tests and evaluation of aquifer properties Stream gauging and measurement of discharge and stage of wells Ground water exploration Geomorphic and geologic control on ground water Estimation of individual components of ground water recharge, discharge and ground water balance Ground water development and management. The book contains a large number of figures, examples of complex interpretative techniques and methodologies, case histories, and problems along with answers. With its integrated, multidisciplinary approach, the book would serve as a valuable reference book to hydrogeologists, geologists, geophysicists, hydrologists, hydrometeorologists, and irrigation, agricultural and drilling engineers, as well as those concerned with planning and decision making. Researchers and students would also find this an indispensable text.

### Engineering & General Geology

### Hydrology

"With the ever increasing developmental activities as diverse as the construction of dams, roads, tunnels, underground powerhouses and storage facilities, petroleum exploration and nuclear repositories, a more comprehensive and updated understanding of rock mass is essential for civil engineers, engineering geologists, geophysicists, and petroleum and mining engineers. Though some contents of this vast subject are included in undergraduate curriculum, there are full-fledged courses on Rock Mechanics/Rock Engineering in postgraduate programmes in civil engineering and mining engineering. Much of the material presented in this book is also taught to geology and geophysics students. In addition, the book is suitable for short courses conducted for teachers, practising engineers and engineering geologists." -- Back cover.

### **Trends in Objective Geology: For Civil Services & Other Competitive Exams Over 3500 Solved Objective Questions, 3e**

### **Concrete Technology**

For nearly three decades there has been a phenomenal growth in the field of Remote Sensing. The second edition of this widely acclaimed book has been fully revised and updated. The reader will find a wide range of information on various aspects of geological remote sensing, ranging from laboratory spectra of minerals and rocks, ground truth, to aerial and space-borne remote sensing. This volume describes the integration of photogeology into remote sensing as well as how remote sensing is used as a tool of geo-exploration. It also covers a wide spectrum of geoscientific applications of remote sensing ranging from meso- to global scale. The subject matter is presented at a basic level, serving students as an introductory text on remote sensing. The main part of the book will also be of great value to active researchers.

### **ENGINEERING GEOLOGY FOR CIVIL ENGINEERS**

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

### **A Text Book Of Geology**

### **Structural Analysis-I, 4th Edition**

### **BUILDING MATERIALS**

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

### **ENGINEERING GEOLOGY FOR CIVIL ENGINEERS**

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.

### **A Textbook of Geology**

### **Remote Sensing Geology**

Structural Analysis, or the 'Theory of Structures', is an important subject for civil engineering students who are required to analyze and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics like Matrix Method and Plastic Analysis are also taught at the postgraduate level and in structural engineering electives. The entire course has been covered in two volumes - Structural Analysis I and II. Structural Analysis I deals with the basics of structural analysis, measurements of deflection, various types of deflection, loads and influence lines, etc.

## **Courses in Mining Geology**

Contents: Introduction, Origin of the Earth, Age of the Earth, Interior of the Earth, Interior of the Earth, The Continents and Mountains, Isostasy, Theory of Plate Tectonics, Evolution of Landforms, Volcanoes, Earthquakes, Weathering, Soils, The Study of Rocks, Mineralogy, Structural Geology.

## **India After Gandhi**

Born against a background of privation and civil war, divided along lines of caste, class, language and religion, independent India emerged, somehow, as a united and democratic country. Ramachandra Guha's hugely acclaimed book tells the full story - the pain and the struggle, the humiliations and the glories - of the world's largest and least likely democracy. While India is sometimes the most exasperating country in the world, it is also the most interesting. Ramachandra Guha writes compellingly of the myriad protests and conflicts that have peppered the history of free India. Moving between history and biography, the story of modern India is peopled with extraordinary characters. Guha gives fresh insights into the lives and public careers of those long-serving Prime Ministers, Jawaharlal Nehru and Indira Gandhi. But the book also writes with feeling and sensitivity about lesser-known (though not necessarily less important) Indians - peasants, tribals, women, workers and musicians. Massively researched and elegantly written, India After Gandhi is a remarkable account of India's rebirth, and a work already hailed as a masterpiece of single volume history. This tenth anniversary edition, published to coincide with seventy years of India's independence, is revised and expanded to bring the narrative up to the present.

## **Atext Book of Engineering and General Geology**

### **Surveying and Levelling**

Beginning with elementary surveying techniques Surveying and Levelling, covers the entire spectrum of the subject in a single volume. This student-friendly book incorporates a large number of exercise problems.

### **Theory of Structures**

## **National Catalogue of University Level Books, 1971**

## **Ground Water Assessment**

## **Foundations of Engineering Geology**

## **Engineering Geology for Society and Territory - Volume 6**

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 and General Geology**

This practice-oriented book, now in its second edition, presents a lucid yet comprehensive coverage of the engineering properties and uses of the materials commonly used in building construction in India. Profusely illustrated with tables and diagrams, the book brings into light the basics of building materials and their specifications. Besides giving information regarding the traditional building materials, the text now acquaints the reader with up-to-date and in-depth information pertaining to modern materials available in the market. The references to IS codes and standards make this text suitable for further study and field use. The second edition possesses some substantial changes in Chapters 12, 13, 14 and 20. Now, the book offers a new section on durability of concrete in Chapter 12; a modified section regarding revision of IS 10262 (1982) code on concrete mix design to IS 10262 (2009) and a new section on classification of exposure conditions in Chapter 13; and a new section relating to large advances made in concrete construction and repair chemicals in Chapter 14. Besides, the content of Chapter 20 has been completely updated, with a particular emphasis on the extensive use of aluminium in building construction. Primarily intended for the students pursuing undergraduate degree (B.E./B.Tech.) and diploma courses in civil engineering and architecture, the book, on account of lecture-based presentation of the subject, should also prove eminently utilitarian for the young teachers to use it in their classroom lectures as well as for practising engineers to

get a clear understanding of the fundamentals of the subject. NEW TO THE SECOND EDITION Review questions at the end of each chapter enable the reader to recapitulate the topics Considerable attention is given on field practice Syllabus of laboratory work on construction materials and a model question paper (Anna University) are given in appendices to guide the reader.

### **Books India**

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.

### **Tropical Geomorphology**

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.

### **Engineering in Rocks for Slopes, Foundations and Tunnels**

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

### **Fundamentals of Engineering Geology**

This Volume Is One Of The Two Which Offer A Comprehensive Course In Those Parts Of Theory And Practice Of Plane And Geodetic Surveying That Are Most Commonly Used By Civil Engineers. The First Volume Covers In 24 Chapters, The Most Common Surveying Operations. Each Topic Introduced Is Thoroughly Described, The Theory Is Rigorously Developed, And A Large Number Of Numerical Examples Are Included To Illustrate Its Application. General Statements Of Important Principles And Methods Are Almost Invariably Given By Practical Illustration. Apart From Illustrations Of Old And Conventional Instruments, Emphasis Has Been Placed On New Or Modern Instruments, Both For Ordinary As Well As Precise Work. A Good Deal Of Space Has Been Given To Instrumental Adjustments With Thorough Discussion Of Geometrical Principles In Each Case. Many New Advanced Problems Have Also Been Added Which Will Prove Useful For Competitive Examinations.

### **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.

## **A Textbook of Engineering and General Geology**

An attempt is made to place before students (degree and post-degree) and professionals in the fields of Civil and Agricultural Engineering, Geology and Earth Sciences, this important branch of Hydrosience, i.e., Hydrology. It deals with all phases of the Hydrologic cycle and related topics in a lucid style and in metric system. There is a departure from empiricism, with emphasis on collection of hydrological data, processing and analysis of data, and hydrological design on sound principles and matured judgement. Large number of hydrological design problems are worked out at the end of each article, to illustrate the principles involved and the design procedure. Problems for assignment are given at the end of each chapter, along with objective type and intelligence questions.

## **A Textbook of Fluid Mechanics and Hydraulic Machines**

### **Textbook of Physical Geology**

### **Textbook of Engineering Geology**

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

### **Engineering Geology**

All undergraduate and postgraduate students of science and engineering faculties will be benefited by this book. It is meant for all undergraduate and postgraduate students of civil engineering science faculty and geology irrespective of their specializations. This book is based mainly on a course of lectures prepared to cover the syllabus of engineering geology course in Universities all over the country. The book will be useful for Civil Engineering students of other universities also. The engineering geology portion of the book also covers the engineering geology included in the B.Sc, M. Sc and M. Tech courses in geology and the book will meet the requirements of students of geology as far as engineering geology is concerned like practicing engineers who need a simple introduction to the principles of geology which are important from the point of view of engineering will get them in this book.

## **Geology for Civil Engineers**

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

## **Principles of Engineering Geology**

## **Watershed Management**

Revised extensively and updated with several new topics, this book discusses the principles and applications of "Heat and Mass Transfer". It is written with extensive pedagogy, clear explanations and examples throughout to elucidate the concepts and facilitate problem solving.

## **Bulletin of the Institution of Engineers (India).**

Although similar geomorphic processes take place in other regions, in the tropics these processes operate at different rates and with varying intensities. Tropical geomorphology therefore provides many new discoveries regarding geomorphic processes. This textbook describes both the humid and arid tropics. It provides thoroughly up-to-date concepts and relevant case studies, and emphasises the importance of geomorphology in the management and sustainable development of the tropical environment, including climate change scenarios. The text is supported by a large number of illustrations, including satellite images. Student exercises accompany each chapter. Tropical Geomorphology is an ideal textbook for any course on tropical geomorphology or the tropical environment, and is also invaluable as a reference text for researchers and environmental managers in the tropics.

## **Raw Materials Update**

This book is one out of 8 IAEG XII Congress volumes, and deals with the theme of applied geology, which is a critical theme for the global economy. In the international, multidisciplinary approach to major engineering projects (either to macro- or

mega-scale), the application of geological investigation techniques is fundamental for properly selecting the location sites, planning the construction and maintaining the infrastructures. The contributions in this book include not only engineering constructions but also case studies related to large projects on geo-resources exploration and extraction (minerals, petroleum and groundwater), energy production (hydropower, geothermal, nuclear and others), transportation (railway and highway) and waste disposal as well as the environmental management of these and other activities. 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 3. River Basins, Reservoir Sedimentation and Water Resources 4. Marine and Coastal Processes 5. Urban Geology, 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.

## **A Geology for Engineers**

### **Surveying Vol. I**

Minerals and rocks form the foundation of geologic studies. This new textbook has been written to address the needs of students at the increasing number of universities that have compressed separate mineralogy and petrology courses into a one- or two-semester Earth materials course. Key features of this book include: equal coverage of mineralogy, sedimentary petrology, igneous petrology and metamorphic petrology; copious field examples and regional relationships with graphics that illustrate the concepts discussed; numerous case studies to show the uses of earth materials as resources and their fundamental role in our lives and the global economy, and their relation to natural and human-induced hazards; the integration of earth materials into a cohesive process-based earth systems framework; two color throughout with 48 pages of four color. Readership: students taking an earth materials, or combined mineralogy and petrology course in an earth science degree program. It will also be useful for environmental scientists, engineering geologists, and physical geographers who need to learn about minerals, rocks, soil and water in a comprehensive framework. A companion website for this book is available at: [www.wiley.com/go/hefferan/earthmaterials](http://www.wiley.com/go/hefferan/earthmaterials).

## **Earth Materials**

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