

# Engineering Geology By Parbin Singh Gongfuore

Bulletin of the Institution of Engineers (India).  
 Foundations of Engineering Geology  
 A Text Book Of Geology  
 Structural Geology: Fundamentals and Modern Developments  
 The Making of India  
 National Catalogue of University Level Books, 1971  
 Objective Applied Geology (For Gsi, Ongc, Sail, Csir, Gate, Upse)  
 Irrigation Engineering  
 Developments in Engineering Geology  
 A Textbook of Engineering and General Geology  
 A Geology for Engineers  
 Watershed Management  
 Engineering Geology  
 Five Equations That Changed the World  
 Geology of Petroleum, 2e  
 Textbook of Physical Geology  
 Principles of Engineering Geology  
 Books India  
 ENGINEERING GEOLOGY FOR CIVIL ENGINEERS  
 Geology for Civil Engineers  
 Tectonics and Structural Geology: Indian Context  
 Civil Engineering Materials  
 A Textbook of Geology  
 Surveying Vol. I  
 A Text Book of Engineering and General Geology  
 Principles of Igneous and Metamorphic Petrology  
 Engineering Geology  
 Indian Books in Print  
 Textbook of Engineering Geology  
 Engineering and General Geology  
 The Principles of PETROLOGY  
 Basic Civil Engineering  
 Directory  
 Building Construction Vol. Iv (Fourth Edition)  
 Underbalanced Drilling: Limits and Extremes  
 Raw Materials Update  
 Electronic Measurements and Instrumentation  
 Rutley's Elements of Mineralogy  
 Atext Book of Engineering and General Geology

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## COHEN WIGGINS

Bulletin of the Institution of Engineers (India). CBS Publishers & Distributors Pvt Limited, India  
 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  
*Foundations of Engineering Geology* Elsevier  
 The last thorough revision of Rutley's Elements of Mineralogy appeared as the 23rd Edition in 1936. In subsequent editions, an effort to keep abreast with the great progress in the science was made by small (and often awkward) modifications and, especially, by the addition of an independent chapter on the atomic structure of minerals. For this present edition, the complete re-setting of the book has made possible not only the integration of the added chapter on atomic structure into its proper place in the accounts of the chemical and physical properties of minerals, but also extensive rewriting and rearrangement of the material in the first part of the book. To this part, also, has been added a short chapter on the classification of minerals. In the second part, the Description of Minerals, numerous, if not so extensive, modifications and modernisations have been introduced. A couple of dozen new figures have been added, mostly in the early part of the book. More specifically, the major changes in this new edition

are the following. The electronic structure of atoms supplies the guide lines for the whole account of mineral-chemistry; additional items concern the electrochemical series, of interest in the occurrence and metallurgical treatment of ores, and chemical analysis. On the physical side, the dependence of physical properties of minerals on their atomic structure is emphasized and, in addition, a brief account of radioactivity and isotopic age-determination is given.

*A Text Book Of Geology* S. Chand Publishing  
 In this book the task of summarising modern petrology from the genetic standpoint has been attempted. The scale of the work is small as compared with the magnitude of its subject, but it is nevertheless believed that the field has been reasonably covered. In conformity with the genetic viewpoint petrology, as contrasted with petrography, has been emphasised throughout; and purely descriptive mineralogical and petrographical detail has been omitted. Every petrologist who reads this book will recognise the author's indebtedness to Dr. A. Harker and Dr. A. Holmes, among British workers; to Prof. R. A. Daly, Dr. H. S. Washington, and Dr. N. L. Bowen, among American petrologists; and to Prof. J. H. L. Vogt, Prof. V. M. Goldschmidt, Prof. A. Lacroix, and Prof. P. Niggli, among European investigators. The emphasis laid on modern views, and the relative poverty of references to the works of the older generation of petrologists, does not imply any disrespect of the latter. It is due to recognition of the desirability of affording the petrological student a newer and wider range of reading references than is usually supplied in this class of work; for references tend to become stereotyped as well as text and illustrations. Furthermore it is believed that all that is good and living in the older work has been incorporated, consciously or unconsciously, in the newer.

### Structural Geology: Fundamentals and Modern Developments

Macmillan  
 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.

### The Making of India

CRC Press  
 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.

### National Catalogue of University Level Books, 1971

A Text Book Of Geology  
 Presents a comprehensive and up-to-date account of the fundamental aspects of structural geology, emphasising both classical concepts and modern developments. A detailed account of the techniques of geometrical analysis is provided, giving a sound background to principles of geological deformation and in-depth analysis of mechanisms of formation of geological structures. Many new features are included such as detailed discussions on rotation of rigid inclusions and passive markers, boudinage (including chocolate tablet boudins, foliation boudins and shear fracture boudins), structural implications of basement-cover relations and time-relation between crystallation and deformation. The book presents the methods of structural analysis from microscopic to map scale, describes modern techniques used in field and laboratory and offers a balanced picture of modern structural geology as it emerges from combined field, experimental and theoretical studies. Hardback edition (0 080 41879 1) also available £50.00

### Objective Applied Geology (For Gsi, Ongc, Sail, Csir, Gate, Upse)

PHI Learning Pvt. Ltd.  
 '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.

*Irrigation Engineering* Springer Science & Business Media  
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 as

**Developments in Engineering Geology** Orient Blackswan  
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.

**A Textbook of Engineering and General Geology** Springer  
A Well-Established Series Of Reference Books Covering Various Aspects Of Building Construction. Volumes I, II And III Are Concerned Essentially With The Principles And Sound Methods Of Construction, Chiefly Traditional In Character. Volume IV Describes More Advanced Building Techniques With The Latest Systems Well Illustrated.

Discovery Publishing House

A Text Book Of Geology/Discovery Publishing House

**A Geology for Engineers** Allied Publishers

Physical Geology \* Geomorphology \* Crystallography \* Descriptive Miner \* Optical Mineralogy \* Petrology \* Structural Geology \* Stratigraphy \* Palaeontology \* Economic Geology \* Geochemistry \* Hydrogeology \* Engineering Geology \* Photogeology and Remote Se

**Watershed Management** Hachette Books

The book discusses different branches of geology, earth's internal structure, composition of the earth, hydrogeology, geological structures and their impact on terrain stability and solution of several engineering problems related with stability and suitability of site for construction

**Engineering Geology** CBS Publishers & Distributors Pvt Limited,

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.

**Five Equations That Changed the World** CRC Press

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 of Petroleum, 2e** Geological Society of London

This book presents a compilation of findings, review and original works, on the tectonic evolution and structural detail of several terrains in India. It captures the tectonic diversity of the Indian terrain, including tectonics of India's coastal areas, the tectonic evolution of Gondwana and Proterozoic (Purana) basins. It also describes the research results of the Indian craton's geo-history, Tertiary Bengal basin, and also the Himalayan collisional zone. Thus the book covers the deformation history of Indian terrain involving strike slip, compressional and extensional tectonics, and ductile and brittle shear deformations.

*Textbook of Physical Geology* Springer

The present crude oil and natural gas reservoirs around the world have depleted conventional production levels. To continue enhancing productivity for the remaining mature reservoirs, drilling decision-makers could no longer rely on traditional balanced or overbalanced methods of drilling. Derived from conventional air drilling, underbalanced drilling is increasingly necessary to meet today's energy and drilling needs. While more costly and extreme, underbalanced drilling can minimize pressure within the formation, increase drilling rate of penetration, reduce formation damage and lost circulation, making mature reservoirs once again viable and more productive. To further explain this essential drilling procedure, Bill Rehm, an experienced legend in drilling along with his co-editors, has compiled a handbook perfect for the drilling supervisor. Underbalanced Drilling: Limits and Extremes, written under the auspices of the IADC Technical Publications Committee, contain many great features and contributions including: Real case studies shared by major service companies to give the reader guidelines on what might happen in actual operations Questions and answers at the end of the chapters for upcoming engineers to test their knowledge Common procedures, typical and special equipment involved, and most importantly, the limits and challenges that still surround this technology

*Principles of Engineering Geology* S. Chand Publishing

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For a combined, one-semester, junior/senior-level course in Igneous and Metamorphic Petrology. Also useful for programs that teach Igneous Petrology and Metamorphic Petrology. Typical texts on igneous and metamorphic petrology are geared to either advanced or novice petrology students. This unique text offers comprehensive, up-to-date coverage of both igneous and metamorphic petrology in a single volume—and provides the quantitative and technical background required to critically evaluate igneous and metamorphic phenomena in a way that students at all levels can understand. The goal throughout is for students to be able to apply the techniques—and enjoy the insights of the results—rather than tinker with theory and develop everything from first principles.

**Books India** CRC Press

In this edition, the book has been completely updated by adding new topics in various chapters. Besides this, two new chapters namely : "Microprocessors and Microcontrollers" (Chapter-13) and "Universities Questions (Latest) with Solutions" (Chapter-14) have been added to make the book still more useful to the readers.

**ENGINEERING GEOLOGY FOR CIVIL ENGINEERS** Elsevier  
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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