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A Manual of Applied Geology is designed as a guide for practising engineers. A team of distinguished engineers and scientists has been assembled to present the basic information which an engineer needs and to explain how best to use this information to deal with problems in his work. Chapters cover

general theory, Formation of rocks, their properties and identification, landforms and soils, geophysical methods, maps and other information sources.the particular problems of terrain evaluation ...

Developed by three experts to coincide with geology lab kits, this laboratory manual provides a clear and cohesive introduction to the field of geology. Introductory Geology is designed to ease new students into the often complex topics of physical geology and the study of our planet and its makeup. This text introduces readers to the various uses of the scientific method in geological terms. Readers will encounter a comprehensive yet straightforward style and flow as they journey through this text. They will understand the various spheres of geology and begin to master geological outcomes which derive from a growing knowledge of the tools and subjects which this text covers in great detail.

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 nee

This handy reference manual puts a wealth of ready-to-use information, data, and practical procedures within immediate reach of geo-engineers and technicians, whether they be in the field or office. It assembles and organizes the most-needed set of equations, tables, graphs and check-lists on six major subfields of geo-engineering: investigations, testing, properties, hazards, structures and works. This practical reference for the professional and others interested in the subject of ground engineering skips lengthy definitions to highlight best practice and methods proven most effective. While reflecting codes and standards, it also fills the gaps with non-standard approaches when existing ones are skimpy on practical details or agreement. Enhanced by 146 illustrations and 83 tables, the Practical Guide to Geo-Engineering points users to supporting information and data through its extensive reference list. Audience: This book is of interest to everyone involved in practical geo-engineering.

All engineering structures react with the ground, and most structures make use of materials extracted from the earth. While an engineer cannot be expected to be also an expert geologist, he must have a working knowledge of the subject if his structures are to be economically designed, safely built and safely used. He must also be able to recognise where and when he needs the advice of a specialist. A Manual of Applied Geology is designed as a guide for practising engineers. A team of distinguished engineers and scientists has been assembled to present the basic information which an engineer needs and to explain how best to use this information to deal with problems in his work. Chaptes cover general theory, Formation of rocks, their properties and identification, landforms and soils, geophysical methods, maps and other information sources. the particular problems of terrain evaluation, site selection and investigation and common construction problems (including groundwater control, stability, foundations and underground work) are examined and there are chapters on materials and hydrogeology.Aimed principally at the engineer who is meeting geological problems in his everyday work, this generously illustrated volume will also be useful as an introduction to the subject for first degree engineering students

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

For Introductory Geology courses This user-friendly, best-selling lab manual examines the basic processes of geology and their applications to everyday life. Featuring contributions from over 170 highly regarded geologists and geoscience educators, along with an exceptional illustration program by Dennis Tasa, Laboratory Manual in Physical Geology, Tenth Edition offers an inquiry and activities-based approach that builds skills and gives students a more complete learning experience in the lab. The text is available with MasteringGeology(tm); the Mastering platform is the most effective and widely used online tutorial, homework, and assessment system for the sciences. Note: You are purchasing a standalone product; Mastering does not come packaged with this content. If you would like to purchase both the physical text and Mastering search for ISBN-10: 0321944526/ISBN-13: 9780321944528. That package includes ISBN-10: 0321944518/ISBN-13: 9780321944511 and ISBN-10: 0321952200/ ISBN-13: 9780321952202 With Learning Catalytics you can:

Praise for the Second Edition: "This is the book that the dewatering sector really needs – it is reliably based on sound theory and profound understanding of the physical processes, yet is presented in a very accessible and user-friendly manner. It draws on many, many decades of experience, and yet is utterly up to date. . . . It is a one-stop shop for the dewatering practitioner – who can nonetheless rest assured that the theoretical basis of the methods presented is flawless." – Professor Paul L. Younger, FGS, FICE, C.Geol., C.Eng., FEng, University of Glasgow, Scotland, UK "The best reference on this topic available . . . and will prove useful to a wide variety of readers ranging from junior construction engineers or dewatering contractors to theoretical hydrogeologists and environmental managers. It is rare that a book is able to bridge the gap between theoretical design guidance and practical application." – S.N. Sterling, University of Waterloo, Canada The extensively updated Groundwater Lowering in Construction: A Practical Guide to Dewatering, 3rd Edition offers practical advice on all phases of groundwater control systems, from planning and design, through installation and maintenance, and ultimately decommissioning. The expertise provided in this book can help you improve working conditions, increase project viability, save time and reduce excavation costs. Designers and managers of construction and engineering projects are given the tools necessary to effectively control groundwater. The content is divided into three sections – Principles, Design and Construction. The Principles section explains the fundamentals of groundwater flow as it relates to civil engineering excavations. The Design section explores in extensive detail site investigation, permeability assessment methods and groundwater control strategies. Chapters in the Construction section describe dewatering and exclusion techniques, and examine the complete life cycle of a groundwater control scheme, including monitoring, maintenance and decommissioning. This section incorporates eleven case histories from the authors

casebook. The 3rd edition has been greatly revised and updated, and contains more than 200 new illustrations. The new content covers: Permeability of soils and rocks Groundwater problems for excavations in rock Groundwater control for tunnelling projects, such as shafts and cross passages Methods for assessing permeability Decommissioning of dewatering systems Optimisation of groundwater control schemes. The new, expanded content offers valuable direction that can give you a true competitive advantage in the planning and execution of temporary and permanent dewatering works for excavation and tunnelling. Written for practising engineers, geologists and construction managers, as well as postgraduate engineering students, this revamped manual on design and practice presents numerous case studies and extensive references to enhance understanding. Martin Preene is a groundwater consultant, based in the UK. He has more than 30 years' experience working on dewatering and groundwater control projects worldwide. The late Pat Cashman was the leading British exponent of groundwater control for his generation, championing a practical and straightforward approach for more than forty years.

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