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Principles Of

Engineering

Principle

s Of Engi

neering

Geology

By

Gokhale

Iroseore

Bridges the Gap

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Principles Of

Engineering

between Geology and
Ground Engineering

High-quality

geological models are

crucial for ground

engineering projects,

but many engineers

are not always at

ease with the

geological

terminology and

analysis presented in

these models, nor

with their implications

Acces PDF Principles Of Engineering and limitations.

Project engineers need to have a sound comprehension of the geological models presented to them, and to be able to discuss the models in so far as they might impinge on the design, safety and possible budgetary or time constraints of the project. They should

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also fully understand how site investigation data and samples are used to develop and substantiate geological models. Geology for Ground Engineering Projects provides a comprehensive presentation of, and insight into, the critical geological phenomena that may

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be encountered in many engineering projects, for example rock contact relationships, weathering and karst phenomena in tropical areas, composition of fault zones and variability of rock discontinuities.

Examples are provided from around the world, including

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Gopal K. Jaiswal
Southeast Asia,
Europe, North and
South America, China
and India.

Comprehensive and
well-illustrated, this
definitive book:

Describes the
important geological
phenomena that could
affect ground
engineering projects
Provides a practical
knowledge-base for

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Common geological

relevant geological
processes Addresses

issues and concerns

Rocks are described

in relation to the

environment of their

formation, highlighting

the variation in

composition,

distribution and

geotechnical

properties that can be

expected within a

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variety of rock associations. Case studies, where geology has been a vital factor, are included. These are written by the project engineers or geologists responsible for the projects.

Geology for Ground Engineering Projects is well illustrated with color diagrams and

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photographs. Readers are directed to satellite images of selected areas to explore for themselves many of the geological features described in this book.

The study of the solid part of the earth on which structures are built is an essential part of the training of

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Cobbels Inreare

a civil engineer.
Geotechnical
processes such as
drilling, pumping and
injection techniques
enhance the viability
of many construction
processes by
improving ground
conditions.
Highlighting the
ground investigation
necessary for the
process, the likely

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improvement in
strength of treated
ground and testing
methods An
Introduction to
Geotechnical
Processes covers the
elements of ground
treatment and
improvement, from
the control of
groundwater, drilling
and grouting to
ground anchors and

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electro-chemical
hardening.

A thorough
knowledge of geology
is essential in the
design and
construction of
infrastructures for
transport, buildings
and mining
operations; while an
understanding of
geology is also crucial
for those working in

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urban, territorial and environmental planning and in the prevention and mitigation of geohazards. Geological Engineering provides an interpretation of the geological setting, integrating geological conditions into engineering design and construction, and

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provides engineering solutions that take into account both ground conditions and environment. This textbook, extensively illustrated with working examples and a wealth of graphics, covers the subject area of geological engineering in four sections:

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Fundamentals: soil
mechanics, rock
mechanics and
hydrogeology
Methods: site
investigations, rock
mass characterization
and engineering
geological mapping
Applications:
foundations, slope
stability, tunnelling,
dams and reservoirs
and earth works

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Geohazards:
landslides, other
mass movements,
earthquake hazards
and prevention and
mitigation of
geological hazards As
well as being a
textbook for graduate
and postgraduate
students and
academics,
Geological
Engineering serves as

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a basic reference for practicing engineering geologists and geological and geotechnical engineers, as well as civil and mining engineers dealing with design and construction of foundations, earth works and excavations for infrastructures,

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buildings, and mining
operations.

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Introduces the
fundamental

principles of applied

Earth science needed

for engineering

practice, with case

studies, exercises,

and online solutions.

Fundamentals of

Engineering Geology

Economic Geology

Geology for Ground

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Projects
geology, soil and rock
mechanics, and other
earth sciences as
used in civil
engineering
Principles of
Engineering Geology
and Geotechnics

*An attempt is made to
place before students
(degree and post-degree)
and professionals in the
fields of Civil and*

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*Agricultural Engineering,
Geology and Earth*

*Sciences, this important
branch of Hydroscience,
i.e., Hydrology. It deals
with all phases of the
Hydrologic cycle and
related opics in a lucid
style and in metric
system. There is a
departure from
empiricism, with
emphasis on collection of
hydrological data,*

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Gokulraj

*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,*

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Gobale Iroseore

*along with objective type
and intelligence
questions.*

*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*

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*constructions such a
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*

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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

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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

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studies relevant to the Indian context have been included, for better understanding of the geological challenges faced by engineers.

Principles of Petroleum Development Geology examines concepts that are fundamental to the success of tomorrow's petroleum geologists whether they call themselves exploration,

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*development or
environmental geologists.*

*Petroleum development
geology contains strong
aspects of structural
geology, reservoir
engineering, drilling
engineering, petrophysics,
reflection seismology,
and petroleum land
management. This
textbook is designed to
outline the most salient
aspects of these*

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*disciplines as they apply
to development geology.*

*Written on an
introductory level, the
book places emphasis on
principles. Field
examples and practical
problems with solutions
are included.*

*Engineering Rock
Mechanics*

*Principles and Practices
of Soil Mechanics and
Foundation Engineering*

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*"Principles of
Engineering Geology".
Textbook of Engineering
Geology*

*Engineering Geology for
Underground Rocks*

Rock mechanics is a multidisciplinary subject combining geology, geophysics, and engineering and applying the principles of

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mechanics to study the engineering behavior of the rock mass. With wide application, a solid grasp of this topic is invaluable to anyone studying or working in civil, mining, petroleum, and geological engineering. Rock Mechani

This book presents

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some fundamental concepts behind the basic theories and tools of discrete element methods (DEM), its historical development, and its wide scope of applications in geology, geophysics and rock engineering. Unlike almost all books available on the

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general subject of
DEM, this book

includes coverage of
both explicit and
implicit DEM

approaches, namely
the Distinct Element
Methods and

Discontinuous
Deformation Analysis

(DDA) for both rigid
and deformable blocks
and particle systems,

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and also the Discrete Fracture Network (DFN) approach for fluid flow and solute transport simulations. The latter is actually also a discrete approach of importance for rock mechanics and rock engineering. In addition, brief introductions to some

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alternative approaches are also provided, such as percolation theory and Cosserat micromechanics equivalence to particle systems, which often appear hand-in-hand with the DEM in the literature. Fundamentals of the particle mechanics

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approach using DEM
for granular media is
also presented.

Presents the
fundamental concepts
of the discrete models
for fractured rocks,
including constitutive
models of rock
fractures and rock
masses for stress,
deformation and fluid
flow . Provides a

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comprehensive
presentation on
discrete element
methods, including
distinct elements,
discontinuous
deformation analysis,
discrete fracture
networks, particle
mechanics and
Cosserat
representation of
granular media .

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Features constitutive
models of rock

fractures and fracture
system

characterization

methods detaiing their
significant impacts on

the performance and
uncertainty of the

DEM models

Professionals and

students in any

geology-related field

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will find this an essential reference. It clearly and systematically explains underground engineering geology principles, methods, theories and case studies. The authors lay out engineering problems in underground rock engineering and how

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to study and solve them. The book specially emphasizes mechanical and hydraulic couplings in rock engineering for wellbore stability, mining near aquifers and other underground structures where inflow is a problem.

Engineering Geology

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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

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in planning, design,
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Gokhale, Irosecr
construction, and
maintenance of

engineering

structures. The book

begins with an

introduction of

geological

investigations,

distinguishing

between the

reconnaissance

investigation, the

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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.

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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

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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.

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The book will also be of assistance to planners, civil engineers, and graduate engineering geologists.

Rock Mechanics on a Geological Base

Computational

Engineering Geology

Principles of

Engineering Geology

Hydrology

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Provides a comprehensive introduction of the application of geologic fundamentals to civil engineering. Explains the theory and applied aspects of engineering geology, and the

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impact geology has
on civil

engineering

planning, design,

construction, and

monitoring. Offers

expanded coverage

of applied

geophysical

methods,

investigation

fundamentals, use

of aggregate

materials, site

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instrumentation,
and remote
sensing.

This book is
written to explain
the influence
ground conditions
can have upon
engineering with
rocks and soils,
and upon
designing,
analysing and
executing an

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Geological and

geomorphological

processes acting

on them; these

subjects form the

essence of

Engineering

Geology. The text

is written for

students of the

subject, either

geologists or

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engineers, who encounter the challenge of idealising the ground and its processes for the purposes of design and of quantifying them for the purpose of analysis. With this in mind the book describes how geology can dictate

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G. K. Moore
the design of
ground
investigations,
influence the
interpretation of
its findings, and be
incorporated into
design and
analysis. The
reader is
constantly
reminded of basic
geology; the
"simple" things

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that constitute the
"big picture", a

neglect of which

may cause design

and analyses to be

at fault, and

construction not to

function as it

should.

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Science &

Business Media

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Engineering is an

unconventional
study guide that
serves up the key
principles,
theories,
definitions, and
analyses of
geotechnical
engineering in bite-
sized pieces. This
book contains brief-

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one or two pages
per topic-snippets
of information

covering the
geotechnical
engineering
component of a
typical
undergraduate
course in
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Engineering

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Engineering
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Mapping By
Geological
Fundamentals of
Ground
Engineering
Geology, Soil and
Rock Mechanics,
and Other Earth
Sciences as Used
in Civil
Engineering
*'Engineering
geology' is one of*

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*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*

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that the geological factors affecting the location, design,

construction,

operation and

mainten ance of

engineering works

are recognized and

adequately provided

for'. It has also been

defined by W. R.

Judd in the

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***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***

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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

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*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

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*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

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*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*

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*that educational
background.*

Analysis and Design

Methods

Focusing on

learning how to

solve real-world

problems, this

practical

introduction to

engineering geology

covers such

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standard topics as stress, the stability of rock slopes, groundwater flow, and seismology.

Requires knowledge of pre-calc math only. Provides theory, worked-out examples, and ample end-of-chapter problem sets

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*to aid readers in
their understanding
and mastery of the*

material. Examines

a full range of

topics, including the

bulk density,

porosity, and

subsidence of rock;

sound wave

surveying

principles; and the

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law of radioactive.

*Uses 'pure' SI units,
displays virtually all*

steps in a

calculation, and

presents

dimensionally

correct equations

throughout. Alerts

readers to such

ambiguous

engineering terms

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as 'flow', and 'load'
with an icon
warning flag
signaling that the
meaning must be
inferred from
context or the units
in which it is
used. For those
preparing for
licensing exams in
engineering

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Engineering
*geology, civil
engineering, or
environmental
engineering.*

*This book
introduces the basic
structure, modeling
methods, numerical
calculation
processes, post-
processing, and
system functions of*

MatDEM, which applies the basic principles and algorithm of the discrete element method. The discrete element method can effectively simulate the discontinuity, inhomogeneity, and large deformation

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*damage of rock and
soil. It is widely
used in both*

research and

industry. Based on

the innovative

matrix discrete

element computing

method, the author

developed the high-

performance

discrete element

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*software MatDEM
from scratch, which
can handle millions*

of elements in

discrete element

numerical

simulations. This

book also presents

several examples of

applications in

geological and

geotechnical

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*engineering,
including basic
geotechnical
engineering
problems, discrete
element tests, three
dimensional
landslides, and
dynamic and multi-
field coupling
functions. Teaching
videos and the*

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*relevant software
can be accessed on
the MATDEM
website*

(<http://matdem.com>)

*. The book serves as
a useful reference
for research and
engineering staff,
undergraduates,
and postgraduates
who work in the*

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*fields of geology,
geotechnical, water
conservancy, civil*

engineering,

mining, and physics.

*Principles, Analysis
and Design*

Encyclopedia of

Engineering

Geology

Lecture Notes

Rock Engineering

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*Earth Science for
Civil and
Environmental
Engineers*

This book
focuses on
topics closely
related to
geological
structures and
hazards
associated with

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rock
constructions. It
studies in detail
geological
masses, field
tests, and
ground
improvement.

Chapters discuss
various
geological
investigations in

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the road, dam,
and water
reservoir

construction.

A must have
reference for
any engineer
involved with
foundations,
piers, and
retaining walls,
this remarkably

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comprehensive
volume
illustrates soil
characteristic
concepts with
examples that
detail a wealth
of practical
considerations,
It covers the
latest
developments in

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the design of drilled pier foundations and mechanically stabilized earth retaining wall and explores a pioneering approach for predicting the nonlinear behavior of

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laterally loaded
long vertical and
batter piles. As
complete and
authoritative as
any volume on
the subject, it
discusses soil
formation, index
properties, and
classification;
soil

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permeability,
seepage, and
the effect of
water on stress
conditions;
stresses due to
surface loads;
soil
compressibility
and
consolidation;
and shear

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strength characteristics of soils. While this book is a valuable teaching text for advanced students, it is one that the practicing engineer will continually be

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taking off the
shelf long after
school lets out.

Just the quick
reference it
affords to a
huge range of
tests and the
appendices filled
with essential
data, makes it
an essential

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in addition to an
civil engineering
library.

This volume
addresses the
multi-
disciplinary topic
of engineering
geology and the
environment,
one of the
fastest growing,

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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

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and, in addition,
highlights
specialized
topics that
address
principles,
concepts and
paradigms of
the discipline,
including
operational
terms,

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materials, tools,
techniques and
methods as well
as processes,
procedures and
implications. A
number of well
known and
respected
international
experts
contributed to

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this authoritative volume, thereby ensuring proper geographic representation, professional credibility and reliability. This superb volume provides a dependable and

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information on
approximately
300 topical
entries relevant
to all aspects of
engineering
geology.

Extensive
illustrations,
figures, images,
tables and

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architects,
hazards
specialists,
hydrologists,
geotechnicians,
geophysicists, g
eomorphologists
, planners,
resource
explorers, and
many others. As
a key library

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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

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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.

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Principles of
Precambrian
Geology is an
update to the
1991 book,
Precambrian
Geology: The
Dynamic
Evolution of the
Continental
Crust, by the
same author.

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The new edition covers the same topics in a more concise and accessible format and is replete with explanatory figures, tables, and illustrations. The book serves as a modern

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comprehensive
statement on
the Earth's
Precambrian
crust, covering
the main
aspects of
distribution, lithi
ostratigraphy,
age, and
petrogenesis of
Precambrian

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rocks by
continent within
the context of
the Earth's
evolving
continental
crust. Principles
of Precambrian
Geology
provides a
suitable
framework for

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assessing
various Earth
dynamic and
biospheric
hypotheses,
including the
modern plate
tectonic
paradigm and
the Gaian
hypothesis.
Despite the

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the new edition
provides
extensive
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references to
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presented. It is
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serve the needs
of student,

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explorationist
and general
student of the
continental
crust. Updated
to provide more
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accessible
information
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tabulations, and
maps Provides a
framework for
assessing recent
hypothesis on
Earth dynamics
Covers main
aspects of
distribution,
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Precambrian
rocks

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to Geotechnical
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Processes
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Foundations of
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Engineering rock mechanics is the discipline used to design structures built in rock.

These structures encompass building foundations, dams, slopes, shafts, tunnels,

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caverns, hydroelectric schemes, mines, radioactive waste repositories and geothermal energy projects: in short, any structure built on or in a rock mass. Despite the variety of projects that use rock engineering, the principles remain the same. Engineering Rock Mechanics clearly and systematically

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explains the key principles behind rock engineering. The book covers the basic rock mechanics principles; how to study the interactions between these principles and a discussion on the fundamentals of excavation and support and the application of these in the design of surface and

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underground structures.

Engineering Rock

Mechanics is

recommended as an

across-the-board source

of information for the

benefit of anyone

involved in rock

mechanics and rock

engineering.

Fundamentals of

Engineering Geology

discusses

geomorphological

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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,

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Mapping is a guide to the principles, concepts, methods, and practices involved in geological mapping, as well as the applications of geology in engineering. The book covers related topics such as the definition of engineering geology; principles

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involved in geological mapping; methods on how to make engineering geological maps; and rock and soil description and classifications. Also covered in the book are topics such as the different kinds of engineering geological mapping; the zoning concept in engineering geological mapping;

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terrain evaluation;
construction sites; and
land and water
management. The text
is recommended for
engineers and geologists
who would like to be
familiarized with the
concepts and practices
involved in geological
mapping.

Humanity ' s ever-
increasing hunger for
mineral raw materials,

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caused by a growing global population and ever increasing standards of living, has resulted in economic geology becoming a subject of urgent importance. This book provides a broad panorama of mineral deposits, covering their origin and geological characteristics, the principles of the search

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for ores and minerals,
and the investigation of
newly found deposits.

Practical and
environmental issues
that arise during the life
cycle of a mine and after
its closure are addressed,
with an emphasis on
sustainable and "green"
mining. The central
scientific theme of the
book is to place the
extraordinary variability

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of mineral deposits in the frame of fundamental geological processes. The book is written for earth science students and practicing geologists worldwide. Professionals in administration, resource development, mining, mine reclamation, metallurgy, and mineral economics will also find the text valuable.

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Economic Geology is a fully revised translation of the the fifth edition of the German language text Mineralische und Energie-Rohstoffe.

Additional resources for this book can be found at: www.wiley.com/go/pohl/geology. The author's website can be found at: <http://www.walter-pohl.com>.

An Introduction

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Discrete Element
Methods for Rock
Engineering: Theory
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Matrix Discrete
Element Analysis of
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as a basic
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first course,
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in particular,
to the students
of Civil
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the book are
dealt under
eleven
chapters.
Until a few
years ago,

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hydropower,
road tunneling
and mining were
the main fields
interested in
rock mechanics.
Now, however,
rock mechanics
is becoming
increasingly
important in
many more
branches - the

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This has raised
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reason for differences in strength and strain properties of different types and volumes of rocks is shown in a very clear fasion, using simple material models and very basic numerical

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models. The author's academic background in both geology and soil and rock mechanics and his long experience in practical design and construction work has led to

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engineers
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structure,
whether it's a
building, bridge

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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

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basic knowledge
of the subject.

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introduces the
fundamentals of
the discipline and
ensures that
engineers have a
clear

understanding of
the processes at
work, and how

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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

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groundwater conditions and underlying geology are introduced. As well as the theoretical knowledge necessary, Professor Bell introduces the techniques that engineers will

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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

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dealing with
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explained. *

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