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Geotechnical
Engineering

Geotechnical Engineering

*The Geotechnical
Engineering
Handbook brings
together
essential
information
related to the
evaluation of*

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*engineering
properties of
soils, design of
foundations such
as spread
footings, mat
foundations,
piles, and
drilled shafts,
and fundamental
principles of
analyzing the
stability of
slopes and*

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*embankments,
retaining walls,
and other earth-
retaining
structures. The
Handbook also
covers soil
dynamics and
foundation
vibration to
analyze the
behavior of
foundations
subjected to*

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*cyclic vertical,
sliding and
rocking
excitations and
topics addressed
in some detail
include:*

*environmental
geotechnology
and foundations
for railroad
beds.*

*Risk and
reliability*

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Geotechnical Engineering

analysis is an area of growing importance in geotechnical engineering, where many variables have to be considered. Statistics, reliability modeling and engineering judgement are

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employed together to develop risk and decision analyses for civil engineering systems. The resulting engineering models are used to make probabilistic predictions,

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*which are
applied to
geotechnical
problems.*

*Reliability &
Statistics in
Geotechnical
Engineering
comprehensively
covers the
subject of risk
and reliability
in both
practical and*

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*research terms **

Includes

*extensive use of
case studies **

*Presents topics
not covered else*

*where--spatial
variability and
stochastic*

*properties of
geological*

*materials * No*

*comparable texts
available*

Where To Download Geotechnical Engineering

Practicing engineers will find this an essential resource as will graduates in geotechnical engineering programmes.

Geotechnical Engineering of Dams, 2nd edition provides a comprehensive

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*text on the
geotechnical and
geological
aspects of the
investigations
for and the
design and
construction of
new dams and the
review and
assessment of
existing dams.
The main
emphasis of this*

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*work is on
embankment dams,
but much of the
text,
particularly
those parts
related to
geology, can be
used for
concrete gravity
and arch dams.
All phases of
investigation,
design and*

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construction are covered.

Detailed descriptions are given from the initial site assessment and site investigation program through to the preliminary and detailed design phases and,

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ultimately, the construction phase. The assessment of existing dams, including the analysis of risks posed by those dams, is also discussed. This wholly revised and significantly expanded 2nd

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*edition includes
a lengthy new
appendix on the
assessment of
the likelihood
of failure of
dams by internal
erosion and
piping. This
valuable source
on dam
engineering
incorporates the
200+ years of*

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*collective
experience of
the authors in
the subject
area. Design
methods are
presented in
combination with
their
theoretical
basis, to enable
the reader to
develop a proper
understanding of*

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the possibilities and limitations of a method. For its practical, well-founded approach, this work can serve as a useful guide for professional dam engineers and engineering geologists and

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*Geotechnical
Engineering*
as a textbook
for university
students.

*Geotechnical
Engineering:
Principles and
Practices, 2/e,
is ideal or
junior-level
soil mechanics
or introductory
geotechnical
engineering
courses. This*

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*introductory
geotechnical
engineering
textbook
explores both
the principles
of soil
mechanics and
their
application to
engineering
practice. It
offers a
rigorous, yet*

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*Geotechnical
Engineering*

*accessible and
easy-to-read
approach, as
well as
technical depth
and an emphasis
on understanding
the physical
basis for soil
behavior. The
second edition
has been revised
to include
updated content*

Where To Download

*and many new
problems and*

*exercises, as
well as to*

*reflect feedback
from reviewers
and the authors'
own experiences.*

*Computations and
Applications*

Soil and

Foundation

Principles and

Practice, 5th

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Ed.

*Unsaturated and
Saturated Soils
Soil-Structure
Interaction
using Computer
and Material
Models*

Intended for the
United States' civil
engineers and
students taking
soil/geotechnical

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engineering courses
in civil engineering,
this title offers
information on
intermediate
foundations,
including a method
called Geopier.
Design practice in
offshore
geotechnical
engineering has
grown out of

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Engineering

onshore practice,
but the two

application areas
have tended to
diverge over the last
thirty years, driven
partly by the scale
of the foundation
and anchoring
elements used
offshore, and partly
by fundamental
differences in

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Geotechnical
Engineering
construction and
installation

techniques. As a
consequence
offshore

geotechnical
engineering has
grown as a
speciality. The
structure of

Offshore

Geotechnical

Engineering follows

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a pattern that mimics the flow of a typical offshore project. In the early chapters it provides a brief overview of the marine environment, offshore site investigation techniques and interpretation of soil behaviour. It

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proceeds to cover geotechnical design of piled foundations, shallow foundations and anchoring systems. Three topics are then covered which require a more multi-disciplinary approach: the design of mobile

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drilling rigs,
pipelines and
geohazards. This
book serves as a
framework for
undergraduate and
postgraduate
courses, and will
appeal to
professional
engineers
specialising in the
offshore industry.

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This book is derived
from Civil

Engineering:

License Review and

Civil Engineering:

Problems &

Solutions. Civil

engineers who only

want to study for

the geotechnical

portion of the PE

exam will find this

book to be a

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Geotechnical
comprehensive
Engineering
review.

Soil-structure
interaction is an
area of major
importance in
geotechnical
engineering and
geomechanics

Advanced
Geotechnical
Engineering: Soil-
Structure

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Interaction using
Computer and
Material Models
covers computer
and analytical
methods for a
number of
geotechnical
problems. It
introduces the main
factors important to
the application of
computer

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An Introduction to
Geotechnical

Engineering

Civil Engineering

A Practical Guide

The Skempton

Conference :

Proceedings of a

Three Day

Conference on

Advances in

Geotechnical

Engineering,

Page 31/164

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Organised by the
Institution of Civil
Engineers and Held
at the Royal
Geographical
Society, London, UK,
on 29-31 March
2004

An accessible,
clear, concise,
and contemporary
course
ingeotechnical

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design. covers
the major in
geotechnical
engineering
packed with self-
test problems
and projects
with an on-line
detailed
solutions manual
presents the
state-of-the-art
field practice

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covers both Eurocode 7 and ASTM standards (for the US). This edition retains the three-part approach of the second edition. Part A is an introduction to the essential concepts necessary to

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procure a piling
or retaining
wall contract.
Part B is the
specification
and is still the
only part of
this document
intended for
incorporation in
contracts. Part
C provides
guidance for use
of the

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Geotechnical
Engineering
specification
and essential

background
information for
specifiers and
contractors
alike. Unlike
the second
edition, Part 3
guidance notes
immediately
follow the
relevant Part 2
specification

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requirements.

The three sections provide the reader with a full compendium without being overly prescriptive. A descriptive, elementary introduction to geotechnical engineering -

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with applications to civil engineering practice.

*focuses on the engineering classification, behavior, and properties of soils necessary for the design and construction of foundations

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and earth
structures.

*introduces
vibratory and
dynamic
compaction, the
method of
fragments, the
Schmertmann
procedure for
determining
field
compressibility,
secondary

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compression,
liquefaction,
and an extensive
use of the
stress path
method.

FUNDAMENTALS OF
GEOTECHNICAL
ENGINEERING is a
concise
combination of
the essential
components of
Braja Das'

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market leading
texts,
**Geotechnical
Engineering**

Principles of
Geotechnical
Engineering and
Principles of
Foundation
Engineering. The
text includes
the fundamental
concepts of soil
mechanics as
well as
foundation

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without becoming cluttered with excessive details and alternatives.

FUNDAMENTALS

features a wealth of worked out examples, as well as figures to help students with theory and problem solving

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skills. Das maintains the careful balance of current research and practical field applications that has made his books leaders in this area. Important Notice: Media content referenced

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within the
product
description or
the product text
may not be
available in the
ebook version.

Reliability and
Statistics in
Geotechnical
Engineering
Principles of
Geotechnical
Engineering, SI

Where To Download Geotechnical Engineering

Edition

Correlations of

Soil and Rock

Properties in

Geotechnical

Engineering

Principles of

Geotechnical

Engineering

Written by a

leader on the

subject,

Introduction to

Geotechnical

Where To Download

*Geotechnical
Engineering is
first*

*introductory
geotechnical
engineering
textbook to
cover both
saturated and
unsaturated soil
mechanics.*

*Destined to
become the next
leading text in
the field, this*

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Geotechnical Engineering

book presents a new approach to teaching the subject, based on fundamentals of unsaturated soils, and extending the description of applications of soil mechanics to a wide variety of topics. This

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groundbreaking work features a number of topics typically left out of undergraduate geotechnical courses.

Installation effects in geotechnical engineering contains the proceedings of

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*the
International
Conference on
Installation
Effects in
Geotechnical
Engineering
(Rotterdam, The
Netherlands,
24-27 March
2013), the
closing
conference of
GEO-INSTALL*

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*(FP7/2007-2013,
PIAG-GA-2009-230
638), an Industr
y-Academia
Pathways and
Partnerships
project funded
by the
Establishes
Geotechnical
Reliability as
Fundamentally
Distinct from
Structural*

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Geotechnical Reliability Reliability-based design is relatively well established in structural design. Its use is less mature in geotechnical design, but there is a steady progression towards reliabil

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ity-based design as seen in the inclusion of a new Annex D on "Reliability of Geotechnical Structures" in the third edition of ISO 2394. Reliability-based design can be viewed as a simplified form of risk-

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based design where different consequences of failure are implicitly covered by the adoption of different target reliability indices.

Explicit risk management methodologies are required for

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large geotechnical systems where soil and loading conditions are too varied to be conveniently slotted into a few reliability classes (typically three) and an associated simple discrete

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*tier of target
reliability
indices.*

Provides

Realistic

Practical

Guidance Risk

and Reliability

in Geotechnical

Engineering

makes these

reliability and

risk

methodologies

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*more accessible
to practitioners
and researchers
by presenting
soil statistics
which are
necessary
inputs, by
explaining how
calculations can
be carried out
using simple
tools, and by
presenting*

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illustrative or actual examples showcasing the benefits and limitations of these methodologies. With contributions from a broad international group of authors, this text: Presents

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*probabilistic
models suited
for soil
parameters*

*Provides easy-to-
use Excel-based
methods for
reliability
analysis*

*Connects
reliability
analysis to
design codes*

(including LRFD

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and Eurocode 7)
Maximizes value
of information
using Bayesian
updating
Contains
efficient
reliability
analysis methods
Accessible To a
Wide Audience
Risk and
Reliability in
Geotechnical

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*presents all the
"need-to-know"
information for
a non-specialist
to calculate and
interpret the
reliability
index and risk
of geotechnical
structures in a
realistic and
robust way. It
suits engineers,*

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researchers, and students who are interested in the practical outcomes of reliability and risk analyses without going into the intricacies of the underlying mathematical theories.

Wiley has long

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*held a pre-
eminent position
as a publisher
of books on
geotechnical
engineering,
with a
particular
strength in soil
behavior and
soil mechanics,
at both the
academic and
professional*

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level. This reference will be the first book focused entirely on the unique engineering properties of residual soil. Given the predominance of residual soils in the under-developed parts

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of the United States and the Southern Hemisphere, and the increasing rate of new construction in these regions, the understanding of residual soils is expected to increase in importance in

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*the coming
years. This book
will be written
for the
practicing
geotechnical
engineer working
to any degree
with residual
soils. It will
describe the
unique
properties of
residual soil*

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*and provide
innovative
design
techniques for
building on it
safely. The
author will draw
on his 30 years
of practical
experience as a
practicing
geotechnical
engineer,
imbuing the work*

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*with real world
examples and
practice
problems
influenced by
his work in
South America
and Southeast
Asia.*

*Principles and
Practices of
Soil Mechanics
and Foundation
Engineering*

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Advanced

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reference for
any engineer***

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*involved with
foundations,
piers, and
retaining
walls, this
remarkably
comprehensive
volume
illustrates
soil
characteristic
concepts with*

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*examples that
detail a*

*wealth of
practical cons
iderations, It
covers the
latest
developments
in the design
of drilled
pier
foundations*

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and
Engineering
mechanically
stabilized
earth
retaining wall
and explores a
pioneering
approach for
predicting the
nonlinear
behavior of
laterally

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

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*properties,
and classifica
tion; soil
permeability,
seepage, and
the effect of
water on
stress
conditions;
stresses due
to surface
loads; soil co*

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compressibility
Engineering
and

*consolidation;
and shear
strength chara
cteristics of
soils. While
this book is a
valuable
teaching text
for advanced
students, it*

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*is one that
the practicing
engineer will
continually be
taking off the
shelf long
after school
lets out. Just
the quick
reference it
affords to a
huge range of*

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*tests and the
appendices*

*filled with
essential*

*data, makes it
an essential*

*addition to an
civil*

*engineering
library.*

This book

presents a one-

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*stop reference
to the
empirical
correlations
used
extensively in
geotechnical
engineering.
Empirical
correlations
play a key
role in*

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*Geotechnical
Engineering
designs and
analysis.*

*Laboratory and
in situ
testing of
soils can add
significant
cost to a
civil
engineering*

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Engineering
*project. By
using*

*appropriate
empirical
correlations,
it is possible
to derive many
design
parameters,
thus limiting
our reliance
on these soil*

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Engineering

tests. The authors have decades of experience in geotechnical engineering, as professional engineers or researchers. The objective of this book

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*Geotechnical
Engineering*
*is to present
a critical
evaluation of
a wide range
of empirical
correlations
reported in
the
literature,
along with
typical values
of soil*

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*Geotechnical
Engineering*
*parameters, in
the light of
their
experience and
knowledge.
This book will
be a one-stop-
shop for the
practising
professionals,
geotechnical
researchers*

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*Geotechnical
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*and academics
looking for
specific
correlations
for estimating
certain
geotechnical
parameters.
The empirical
correlations
in the forms
of equations*

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*and charts and
typical values
are collated
from extensive
literature
review, and
from the
authors'
database.*

*Intended as an
introductory
text in soil*

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*mechanics, the
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overview of
soil
properties and
mechanics
together with*

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in later design-
oriented*

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practice is
provided
through a
wealth of
comprehensive
discussions,
detailed
explanations,
and more
figures and

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*worked out
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any other text
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text in soil
mechanics, the
seventh
edition of
Das,*

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*offers an
overview of
soil
properties and
mechanics
together with
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practices and
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*contains more
figures and
worked out
problems than
any other text
on the market
and provides*

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information
needed to
support study
in later design-oriented
courses or in
professional
practice.*

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The Material
Point Method
for*

*Geotechnical
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ICE*

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Embedded
Retaining
Walls***

**Established as a
standard textbook for
students of
geotechnical
engineering, this
second edition of
Geotechnical
Engineering provides a**

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**solid grounding in the
mechanics of soils and
soil-structure
interaction. Renato
Lancellotta gives a
clear presentation of
the fundamental
principles of soil
mechanics and
demonstrates how
these principles are
Dealing with the
fundamentals and
general principles of**

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**soil mechanics and
geotechnical**

**engineering, this text
also examines the
design methodology of
shallow / deep
foundations, including
machine foundations.
In addition to this, the
volume explores
earthen embankments
and retaining
structures, including
an investigation into**

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ground improvement techniques, such as geotextiles, reinforced earth, and more

Soils are the most common and complex type of construction material. Virtually all structures are either built with soil (e.g., earth dams and embankments), in soil (e.g., tunnels and underground storage

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**facilities), or on soil
(e.g., building**

**foundations and
roads). Soil conditions
and load combinations
are unique to each site.
To be able to predict
soil behavior under the
anticipated loading
conditions, the
mechanics of soils
should be well
understood, and their
specific properties**

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evaluated. The project design should also take into consideration the environmental, social, and economic factors. The five-volume book series delivers a comprehensive coverage of topics in geotechnical engineering practice. The unique design of the text allows the user to look up a topic of

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interest and be able to find, in most cases, the related information all on the same sheet with related figures and tables, eliminating the need for figure and table referral numbers. In a way, each page is a capsule of information on its own, yet, related to the subject covered in that chapter. The topics

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**covered in all five
volumes will assist the**

**reader with becoming
a licensed professional
engineer (PE) and a
licensed geotechnical
engineer (GE). Volume
1 contains chapters 1
through 7, which
provides the user with
a practical guide on
the fundamentals of
soil mechanics,
including: Natural Soil**

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Deposits, Soil Composition and Properties, Soil Improvement, Soil Water, Soil Stresses, Soil Compressibility and Settlement, and Shear Strength of Soil. Example problems follow the topic they cover. Several practice problems are included at the end of each chapter with the

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answers provided. It also contains the necessary forms, tables, and graphing papers for the state-of-the-practice laboratory experiments in soil mechanics.

In this book, a chapter on stability of slopes has been included as most of the universities cover this in the first course of Geotechnical

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Engineering. The contents of this volume are written at a basic level suitable for a first course in Geotechnical Engineering. This book highlights the basic principles of soil mechanics along with applications to many problems in Geotechnical Engineering. The material is covered in

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Engineering**
a very simple, clear and
logical manner. A

number of solved and
exercise problems have
been included in each
chapter.

**Offshore Geotechnical
Engineering
Forensic Geotechnical
Engineering
Modeling in
Geotechnical
Engineering**

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*The Geotechnical
Engineering*

Investigation

*Handbook provides the
tools necessary for
fusing geological
characterization and
investigation with
critical analysis for
obtaining engineering
design criteria. The
second edition updates
this pioneering*

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reference for the 21st century, including developments that have occurred in the twenty years since the first edition was published, such as:

- *Remotely sensed satellite imagery*
- *Global positioning systems (GPS)*
- *Geophysical exploration*
- *Cone penetrometer testing*

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Digitizing of data
recording and retrieval
• Field and laboratory
testing and
instrumentation • Use
of the Internet for data
retrieval The
Geotechnical
Engineering
Investigation
Handbook, Second
Edition is a*

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*comprehensive guide to
a complete*

*investigation: study to
predict geologic
conditions; test-boring
procedures; various
geophysical methods
and when each is
appropriate; various
methods to determine
engineering properties
of materials, both
laboratory-based and*

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*in situ; and
formulating design
criteria based on the
results of the analysis.
The author relies on his
50+ years of
professional
experience,
emphasizing
identification and
description of the
elements of the
geologic environment,*

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the data required for analysis and design of the engineering works, and procuring the data. By using a practical approach to problem solving, this book helps engineers consider geological phenomena in terms of the degree of their hazard and the potential risk of their occurrence.

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Calculations Manual offers geotechnical, civil and structural engineers a concise, easy-to-understand approach the formulas and calculation methods used in of soil and geotechnical engineering. A one stop guide to the foundation

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