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**Elements of
Soil Mechanics brings
additional material on
geotechnical design
to Eurocode 7 in an
understandable
format. Many worked
examples are included
to illustrate the
processes for
performing design to
this European
standard. Significant
updates throughout**

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the book have been made to reflect other developments in procedures and practices in the construction and site investigation industries. More worked examples and many new figures have been provided throughout.

The illustrations have been improved and the

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**new design and layout
of the pages give a lift.**

unique content to

illustrate the use of

Eurocode 7

with essential guidance

on how to use the now

fully published code

clear content and well-

organised structure

takes complicated

theories and processes

and presents them

in easy-to-understand

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students has learned from the easy-to-follow, understandable material in Soils in Construction. By keeping math simple and emphasizing construction operations and applications over engineering theory, the authors have created an ideal resource for non-technical, management-focused courses.

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Students interested in the field applications of soils will gain the knowledge they need to interact confidently with geotechnical engineers in their careers. The book's extensive discussion of soil materials in the first five chapters is supplemented by an appendix describing testing methods that

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can easily be adapted to the hands-on component of a course. The remaining seven chapters cover the role that soil materials play in various aspects of construction contracting. Every chapter ends with problems presenting students with the kinds of scenarios they'll face in the field.

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This text is well-suited for a course in introductory environmental engineering for sophomore, or junior level students. The emphasis is on concepts, definitions, descriptions, and abundant illustrations, rather than on engineering design detail.

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Engineering provides
up-to-date, state-of-the-
art reviews of the
existing literature on
lateral earth pressure,
sheet pile walls,
ultimate bearing
capacity of shallow
foundations, holding
capacity of plate and
helical anchors in sand
and clay, and slope
stability analysis. The

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discussion of the ultimate bearing capacity of shallow foundations is the most comprehensive presentation on the subject to be found anywhere, and the review of earth anchors is unique to this book. In addition, each chapter includes several topics which have never appeared in

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any other book. The treatment is primarily theoretical and does not in any way compete with existing foundation design books. This is the only textbook of its kind. Not only will it be welcomed by teachers and first-year graduate students of geotechnical engineering, but it will be a useful reference

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networks, pumps,
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flow, hydraulic
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similitude and
model studies.**

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constructing
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structures that
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durable,
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the interaction**

between soil and structure is at the foundation of it all. Laying down the groundwork for the non-specialists looking to gain an understanding of the background and issues

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the uncertainty of
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issues that
underpin recent
codes. It then
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explain the principles of the geotechnical design of gravity walls, embedded walls, and composite structures.

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**with seepage and
slope instability,
therefore
providing a
greater
understanding of
design issues
and allowing
readers to readily
check computer
output. The
second part of**

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the book begins by describing the background of Eurocode 7, and ends with detailed information about gravity walls, embedded walls, and composite walls. It also includes recent

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**material on
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the physical basis
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*parameters, thus
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reliance on these

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introduces systematically the application of Bayesian probabilistic approach in soil mechanics and geotechnical engineering. Four typical problems are analyzed by using Bayesian probabilistic approach, i.e., to

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model the effect of initial void ratio on the soil–water characteristic curve (SWCC) of unsaturated soil, to select the optimal model for the prediction of the creep behavior of soft soil under one-dimensional straining, to identify model parameters of

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soils and to select constitutive model of soils considering critical state concept. This book selects the simple and easy-to-understand Bayesian probabilistic algorithm, so that readers can master the Bayesian method to analyze

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***and solve the
problem in a short
time. In addition,
this book provides
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the fundamental concepts of both soil mechanics and foundation engineering without the distraction of excessive details or cumbersome alternatives. A wealth of worked-out, step-

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