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This book is intended as a main text in the basic theory and principles of soil mechanics, to serve the needs of undergraduates and technicians and practising engineers in the fields of building and civil engineering. It is assumed that the reader will have a basic grounding of mathematics and science, particularly basic mechanics. learning, by students under tuition. Fundamentals and principles are clearly set out in a manner which is intended to be concise and yet still provide a sufficiently comprehensive treatment. The author expects students to have, and indeed relies on them having, the expert help and advice of good teachers. The need for a good foundation of knowledge is undeniable; a firm grasp of basic principles is required for this purpose. the best learning situation develops from an application of principles. The book consequently contains a large number of worked examples within the text and a quantity of practice exercises at the end of chapters. It is essential for students to come to grips with simple practical problems as soon as problem prior to an exposition of the theory. probable that many readers will want to retain their copy for use in more advanced studies and later in engineering practice. Some topics have, therefore, been taken beyond the fundamental stage and examples of a more advanced level provided for the more experienced reader. A list of quoted references is given at the end of the book, which students will find useful as a source for further reading. The topic coverage should therefore be sufficiently comprehensive so as to meet the needs of students at all stages in their courses of study, as well as those of post-graduate workers and professional engineers.

The second edition of this highly informative book retains much original material covering the principles of structural mechanics and the strength of materials, together with the underlying concepts requisite to the theory of structure and structural design. Some of the material involving lengthy hand-drawing or hand-calculation has been replaced with more up-to-date relevant material and frequent reference is made to computer-aided learning techniques.

This work reviews soil mechanics in the light of critical state soil mechanics. A number of exercises are provided, and a microcomputer program, "Cris", used for simulation of the behaviour of soil samples subjected to triaxial tests through the critical state models, accompanies the text.

In the last forty years, at least fifty books have been written on the subject of soil mechanics, most of them textbooks. Only a few touch on practical applications. Soil Engineering: Testing, Design, and Remediation supplies the information needed to fill the gap between textbook learning and practical know-how. When engineers deal with major p

The 9th edition maintains the content on all soilmechanics subject areas - groundwater flow, soil physicalproperties, stresses, shear strength, consolidation and settlement,slope stability, retaining walls, shallow and deep foundations,highways, site investigation - but has been expanded to include adetailed explanation of how to use Eurocode 7 for geotechnicaldesign. The key change in this new edition is the expansion of thecontent covering Geotechnical Design to Eurocode 7. Redundantmaterial relating to the now defunct British Standards - no longerreferred to in degree teaching - has been removed. Building on the success of the earlier editions, this9th edition of Smith’s Elements of SoilMechanics brings additional material on geotechnical design toEurocode 7 in an understandable format. Many worked examples areincluded to illustrate the processes for performing design to thisEuropean standard. Significant updates throughout the book have been made toreflect other developments in procedures and practices in theconstruction and site investigation industries. More workedexamples and many new figures have been provided throughout. Theillustrations have been improved and the new design and layout ofthe pages give a lift. unique content to illustrate the use of Eurocode 7 withessential guidance on how to use the now fully published code clear content and well-organised structure takes complicated theories and processes and presents them ineasy-to-understand formats book's website offers examples and downloads to furtherunderstanding of the use of Eurocode 7 ahref="http://www.wiley.com/go/smith/soil"www.wiley.com/go/smith/soil/a

This book is intended primarily to serve the needs of the undergraduate civil engineering student and aims at the clear explanation, in adequate depth, of the fundamental principles of soil mechanics. The understanding of these principles is considered to be an essential foundation upon which future practical experience in soils engineering can be built. The choice of material involves an element of personal opinion but the contents of this book should cover the requirements of most undergraduate courses to honours level. It is assumed that the student has no prior knowledge of the subject but has a good understanding of basic mechanics. The book includes a comprehensive range of worked examples and problems set for solution by the student to consolidate understanding of the fundamental principles and illustrate their application in simple practical situations. The International System of Units is used throughout the book. A list of references is included at the end of each chapter as an aid to the more advanced study of any particular topic. It is intended also that the book will serve as a useful source of reference for the practising engineer. In the third edition no changes have been made to the aims of the book. Except for the order of two chapters being interchanged and for minor changes in the order of material in the chapter on consolidation theory, the basic structure of the book is unaltered.

Now in its eighth edition, this bestselling text continues to blend clarity of explanation with depth of coverage to present students with the fundamental principles of soil mechanics. From the foundations of the subject through to its application in practice, Craig‘s Soil Mechanics provides an indispensable companion to undergraduate courses and b

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