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John Atkinson is Professor of Soil Mechanics at City University, London. He has taught geotechnical engineering to undergraduates and postgraduates for over 30 years. He is expert in soil behaviour and laboratory testing of soils and he was the Rankine Lecturer in 2000.

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The Mechanics of Soils and Foundations. London: CRC Press, <https://doi.org/10.1201/9781315273549>. Ideal for undergraduates of geotechnical engineering for civil engineers, this established textbook sets out the basic theories of soil mechanics in a clear and straightforward way; combining both classical and critical state theories and giving students a good grounding in the subject which will last right through into a career as a geotechnical engineer.

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Soil mechanics is a branch of soil physics and applied mechanics that describes the behavior of soils. It differs from fluid mechanics and solid mechanics in the sense that soils consist of a heterogeneous mixture of fluids (usually air and water) and particles (usually clay, silt, sand, and gravel) but soil may also contain organic solids and other matter.

Soil mechanics - Wikipedia

Soil mechanics is the science of equilibrium and motion of soil bodies. Here soil is understood to be the weathered material in the upper layers of the earth's crust. The non-weathered material in this crust is denoted as rock, and its mechanics is the discipline of rock mechanics.

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Soil mechanics is a discipline of civil engineering that predicts the soil performance characteristics utilizing the engineering techniques of dynamics, fluid mechanics, and other technologies. Soil mechanics includes the study of soil composition, strength, consolidation,

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The Mechanics of Soils and Foundations (2nd ed.)

An Introduction to the Mechanics of Soils and Foundations. Covering the undergraduate course in geotechnical engineering for civil engineers, this work sets out the basic theories of soil mechanics in a clear, simple way, combining both classical and critical state theories.

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There are four basic assumptions in the critical state soil mechanics: (a) The soil is homogeneous and isotropic. (b) The mechanical behaviour of soil depends only on effective stress, which is defined as the difference between the total stress and the pore water pressure (usually referred to as pore pressure).

Soil Mechanics - an overview | ScienceDirect Topics

Buy The Mechanics of Soils and Foundations, Second Edition 2 by Atkinson, John (ISBN: 9780415362566) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

Ideal for undergraduates of geotechnical engineering for civil engineers, this established textbook sets out the basic theories of soil mechanics in a clear and straightforward way; combining both classical and critical state theories and giving students a good grounding in the subject which will last right through into a career as a geotechnical engineer. The subject is

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broken down into discrete topics which are presented in a series of short, focused chapters with clear and accessible text that develops from the purely theoretical to discussing practical applications. Soil behaviour is described by relatively simple equations with clear parameters while a number of worked examples and simple experimental demonstrations are included to illustrate the principles involved and aid reader understanding.

Covering the undergraduate course in geotechnical engineering for civil engineers, this work sets out the basic theories of soil mechanics in a clear, simple way, combining both classical and critical state theories. By using short, focused chapters, the author ensures an accessible text while maintaining a continuous thread running through the book as theory develops into application. The treatment of soil mechanics is essentially theoretical but it is not highly mathematical and soil behaviour is represented by relatively simple equations with clearly defined parameters. The theory is supported by worked examples and simple experimental demonstrations.

Although theoretical in character, this book provides a useful source of information for those dealing with practical problems relating to rock and soil mechanics - a discipline which, in the view of the authors, attempts to apply the theory of continuum to the mechanical investigation of rock and soil media. The book is in two separate parts. The first part, embodying the first three chapters, is devoted to a description of the media of interest. Chapter 1 introduces the

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main argument and discusses the essence of the discipline and its links with other branches of science which are concerned, on the one hand, with technical mechanics and, on the other, with the properties, origins, and formation of rock and soil strata under natural field conditions. Chapter 2 describes mechanical models of bodies useful for the purpose of the discourse and defines the concept of the limit shear resistance of soils and rocks. Chapter 3 gives the actual properties of soils and rocks determined from experiments in laboratories and in situ. Several tests used in geotechnical engineering are described and interconnections between the physical state of rocks and soils and their rheological parameters are considered. The second part of the book considers the applications of various theories which were either first developed for descriptive purposes in continuum mechanics and then adopted in soil and rock mechanics, or were specially developed for the latter discipline. Chapter 4 discusses the application of the theory of linear viscoelasticity in solving problems of stable behaviour of rocks and soils. Chapter 5 covers the use of the groundwater flow theory as applied to several problems connected with water movement in an undeformable soil or rock skeleton. Chapter 6 is a natural expansion of the arguments put forward in the previous chapter. Here the movement of water is regarded as the cause of deformation of the rock or soil skeleton and the consolidation theory developed on this basis is presented in a novel formulation. Some new engineering solutions are also reported. The seventh chapter is devoted to the limit state theory as applied to the study of the mechanical behaviour of soils and rocks. It presents some new solutions and methods which include both static and kinematic aspects of the problem, and some original effective methods for investigating media of limited cohesion. The final chapter gives a systematic account of the mechanics of highly dispersed soils, commonly called clays.

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This textbook offers a superb introduction to theoretical and practical soil mechanics. Special attention is given to the risks of failure in civil engineering, and themes covered include stresses in soils, groundwater flow, consolidation, testing of soils, and stability of slopes. Readers will learn the major principles and methods of soil mechanics, and the most important methods of determining soil parameters both in the laboratory and in situ. The basic principles of applied mechanics, that are frequently used, are offered in the appendices. The author's considerable experience of teaching soil mechanics is evident in the many features of the book: it is packed with supportive color illustrations, helpful examples and references. Exercises with answers enable students to self-test their understanding and encourage them to explore further through additional online material. Numerous simple computer programs are provided online as Electronic Supplementary Material. As a soil mechanics textbook, this

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volume is ideally suited to supporting undergraduate civil engineering students. "I am really delighted that your book is now published. When I "discovered" your course a few years ago, I was elated to have finally found a book that immediately resonated with me. Your approach to teaching soil mechanics is precise, rigorous, clear, concise, or in other words "crisp." My colleagues who share the teaching of Soil Mechanics 1 and 2 (each course is taught every semester) at the UMN have also adopted your book." Emmanuel Detournay Professor at Dept. of Civil, Environmental, and Geo-Engineering, University of Minnesota, USA

This seventh edition of Soil Mechanics, widely praised for its clarity, depth of explanation and extensive coverage, presents the fundamental principles of soil mechanics and illustrates how they are applied in practical situations. Worked examples throughout the book reinforce the explanations and a range of problems for the reader to solve provide further learning opportunities.

Ideal for undergraduates of geotechnical engineering for civil engineers, this established textbook sets out the basic theories of soil mechanics in a clear and straightforward way; combining both classical and critical state theories and giving students a good grounding in the subject which will last right through into a career as a geotechnical engineer. The subject is broken down into discrete topics which are presented in a series of short, focused chapters with clear and accessible text that develops from the purely theoretical to discussing practical applications. Soil behaviour is described by relatively simple equations with clear parameters while a number of worked examples and simple experimental demonstrations are included to

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illustrate the principles involved and aid reader understanding.

Residual soils are found in many parts of the world and are used extensively as construction materials for roads, embankments and dams, and to support the foundations of buildings, bridges and load-bearing pavements. The characteristics and engineering properties of residual soils can differ significantly from those of the more familiar transported soils. The fact that residual soils occur often in areas with tropical and sub-tropical climates and (extensively) in semi-arid climates, adds another dimension to their engineering performance, that of unsaturation. Although there are many books that deal with the mechanics of soils, these are based mainly on the characteristics and behaviour of saturated transported soils. The first edition of this book was the first book to be written specifically about the mechanics of residual soils. The book was prepared by a panel of authors drawn from the Technical Committee on Tropical and Residual Soils of the International Society for Soil Mechanics and Foundation Engineering. It was written as a practical professional guide for geotechnical engineers working with residual soils. The second edition has retained the valuable information contained in the first edition. The present editors and authors have extensively revised and augmented the content to bring it completely up to date, adding significantly to the sections on unsaturated soil mechanics and expanding the range and number of instructive case histories. Furthermore, sections on pedocretes, dispersive soils and karst have been added.

Knowledge of the behavior of soil mechanics is essential for forecasting the internal displacements and actions of any construction. This book, although theoretical at first glance,

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also offers a more practical scope, giving readers adequate tools to plan geotechnical projects correctly.

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