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## BASIC SOIL MECHANICS. 2ND EDITION

The author intends this book to be a main text in the basic theory and principles of soil mechanics, to serve the needs of undergraduates and technicians as well as practising engineers in the fields of building and civil engineering. The book contains a large number of worked examples within the text and many practical exercises at the ends of chapters; answers are provided at the end of the book. Chapters cover the following topics: 1) origins and composition of soil; 2) classification of soils for engineering purposes; 3) basic physical properties of soils; 4) water in soil: occurrence and effects; 5) water in soil: permeability and seepage; 6) stresses and strains in soils; 7) measurement of shear strength; 8) lateral earth pressure; 9) stability of slopes; 10) soil compressibility and settlement; 11) bearing capacity of foundations, and 12) site investigations and in-situ testing. (TRRL)

### Availability:

Find a library where document is available. Order URL: <http://worldcat.org/isbn/0582045649>

### Corporate Authors:

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Longman House, Burnt Mill  
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### Media Info

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**Pagination:** 544 p.

### Subject/Index Terms

**TRT Terms:** [Bearing capacity](#); [Compressibility](#); [Earth pressure](#); [Engineering soils](#); [Field tests](#); [Foundation soils](#); [Permeability](#); [Physical properties](#); [Properties of materials](#); [Seepage](#); [Settlement \(Structures\)](#); [Shear strength](#); [Slope stability](#); [Soil mechanics](#); [Soil types](#); [Soil water](#); [Soils](#); [Strain \(Mechanics\)](#); [Stresses](#); [Textbooks](#)

**Uncontrolled Terms:** [Site investigation](#); [Soil classification](#)

**Old TRIS Terms:** [Lateral earth pressure](#); [Soil bearing capacity](#); [Soil composition](#); [Soil permeability](#); [Strains](#)

**ITRD Terms:** [3085: Bearing capacity](#); [8513: Classification](#); [5595: Deformation](#); [5567: Load](#); [5921: Permeability](#); [5412: Pressure](#); [5925: Properties](#); [5792: Settlement](#); [5531: Shear](#); [5722: Site investigation](#); [5783: Slope stability](#); [5755: Soil mechanics](#); [5544: Strength \(mater\)](#); [4355: Water](#)

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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. These basic characteristics determine the type of structure to be built and what external support measures, if any, has to be taken to make the structure last long and bear the effects of earthquake, water seepage, and other external factors. This successful text covers the basic principles of soil mechanics and the new edition includes a computer based simulation package. This package will include a suite of interactive spreadsheet assignments covering a wide range of topics, an online reference manual, an online glossary of terms and symbols and a soil mechanics "quiz" for student self-assessment. Soil mechanics is a core component of all civil engineering studies and an important topic for building and construction. these problems soil mechanics should provide the basic knowledge. 6 SOIL MECHANICS Problem Solving in Quantum Mechanics: From Basics to Real-World Applications for Materials Scientists, Applied Physicists, and Devices Engineers. 370 Pages·2017·3.61 MB·1,236 Downloads·New! ANSYS Mechanical APDL Basic Analysis Guide ANSYS, ANSYS Workbench, Ansoft, AUTODYN, EKM Applied Fluid Mechanics. 543 Pages·2014·333.11 MB·9,461 Downloads·New! Abaqus, soil mechanics, soil plasticity, hypoplasticity, pile penetration analysis, Documents. Soil mechanics in \_pavement\_engineering. Basic Soil Science: Soil Horizons Notes Basic Soil Science BSS4 Soil Horizons Basic Soil Science: Soil. Documents. soil mechanics - Al Farez Trading Co. 1.2 Soil Mechanics...soil mechanics. 56 ad 002 1.2.1 tecnotest... Documents. Unsaturated Soil Mechanics in Soil Mechanics Problems Described in "Theoretical Soil Mechanics" by K. Terzaghi (1943). Documents. Basic Soil Mechanics. Item Preview. remove-circle.