

# CHAPTER 3

## SOIL PHASE RELATIONSHIPS, INDEX PROPERTIES AND CLASSIFICATION

### 3.22 PROBLEMS – SOLUTIONS

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#### Problem 3.1

A soil mass in its natural state is partially saturated having a water content of 17.5% and a void ratio of 0.87. Determine the degree of saturation, total unit weight, and dry unit weight. What is the weight of water required to saturate a mass of 10 m<sup>3</sup> volume? Assume  $G_s = 2.69$ .

#### Solution

**Given** :  $w = 17.5\%$ ,  $e = 0.87$ ,  $G_s = 2.69$

**Required** : (a) Degree of saturation  $S$ , (b) total unitweight  $\gamma_t$ , (c) dry unit weight  $\gamma_d$  and (d) weight of water required to saturate a mass of soil of volume 10 m<sup>3</sup>.

$$(a) \quad S = \frac{wG_s}{e} = \frac{0.175 \times 2.69}{0.87} \times 100 = 54.1\%$$

$$(b) \quad \gamma_t = \frac{G_s \gamma_w (1 + w)}{1 + e} = \frac{2.69 \times 9.81(1 + 0.175)}{1 + 0.87} = 16.58 \text{ kN/m}^3$$

$$(c) \quad \gamma_d = \frac{\gamma_t}{1 + w} = \frac{16.58}{1 + 0.175} = 14.11 \text{ kN/m}^3$$

$$(d) \quad \gamma_{sat} = \frac{\gamma_w(G_s + e)}{1 + e} = \frac{9.81(2.69 + 0.87)}{1 + 0.87} = 18.68 \text{ kN/m}^3$$

Weight of water to saturate 1 m<sup>3</sup> of soil is  $\gamma_{sat} - \gamma_t = 18.68 - 16.58 = 2.1 \text{ kN}$ .

Weight of water to saturate 10 m<sup>3</sup> of soil =  $2.1 \times 10 = 21 \text{ kN}$ .

# Principles Of Soil Mechanics And Foundations

**United States. Army. Corps of  
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## **Principles Of Soil Mechanics And Foundations:**

**Principles of Soil Mechanics and Foundation Engineering** V. N. S. Murthy, 2001 The Book Deals With The Fundamentals Of Soil Mechanics And Foundation Engineering It Is A Comprehensive Analysis Of The Subject And Explains The Basic Principles From Theory To Practice In A Lucid And Logical Way It Covers The Requirement Of Undergraduate Students And Serves As A Foundation Course For Postgraduate Students For Further Development Of Advanced Knowledge Of The Subject

**Geotechnical Engineering** V.N.S. Murthy, 2002-10-25 A must have reference for any engineer involved with foundations piers and retaining walls this remarkably comprehensive volume illustrates soil characteristic concepts with examples that detail a wealth of practical considerations It covers the latest developments in the design of drilled pier foundations and mechanically stabilized earth retaining walls

**Principles of Soil Dynamics** Braja M. Das, 1993 This is perhaps the only book available which may serve as a main reference book for an introductory course on Soil Dynamics The primary focus of the book is on applications of soil dynamics and not on the underlying principles

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**Principles of Foundation Engineering** Braja M. Das, 1990 Very Good No Highlights or Markup all pages are intact

**SOIL MECHANICS AND FOUNDATIONS, 2ND ED(With CD)** Muni Budhu, 2008-08-04 Discover the Principles that Support the Practice With its simplicity in presentation this book makes the difficult concepts of soil mechanics and foundations much easier to understand The author explains basic concepts and fundamental principles in the context of basic mechanics physics and mathematics From Practical Situations and Essential Points to Practical Examples the book is packed with helpful hints and examples that make the material crystal clear This book also includes a CD ROM that offers readers hands on learning Introduction to Soil Mechanics and Foundations Geological Characteristics of Soils and Soils Investigation Physical Soil Parameters One Dimensional Flow of Water through Soils Stresses Strains and Elastic Deformations of Soils One Dimensional Consolidation Settlement of Fine Grained Soils Shear Strength of Soils A Critical State Model to Interpret Soil Behavior Bearing Capacity of Soils and Settlement of Shallow Foundations Pile Foundations Two Dimensional Flow of Water through Soils Stability of Earth Retaining Structures Slope Stability

**Soil Mechanics and Foundation Engineering** KALITA, UTSAV CHANDRA, 2010-10 Designed for the undergraduate students of civil engineering this textbook covers the theoretical aspects

of soil mechanics and foundation engineering in a single volume The text is organized in two parts Part I Soil mechanics and Part II Foundation engineering Part I includes the basic properties and strength of soil vertical and lateral pressures discussion on earthen dam sheet piles and stability analysis for hill slope in connection with hill road construction Part II discusses shallow and deep foundations approaches of analysis of machine foundation and various methods of determining the bearing capacity of soil A separate chapter is devoted to on site investigation Besides the undergraduate students this compendium will also be useful for students appearing for various competitive examinations such as GATE IES and IAS Consulting engineers in geotechnical engineering may also use this book as a reference KEY FEATURES Includes numerical problems with solutions in connection with construction of dams and highways in hilly region Figures and explanations to facilitate professionals and designers of machine foundation to solve the complex problem of stability analysis Objective type questions to aid in UPSC examinations Geotechnical Engineering C Venkatramaiah,1995 Soil Mechanics G. E. Barnes,1995 This book provides an up to date coverage of the basic principles of soil mechanics for undergraduate and equivalent students of civil engineering and geotechnics Structural engineers foundation environmental and mining engineers and engineering geologists will also find it an invaluable source of reference The main aims are to provide the reader with a good understanding of the nature of soil an appreciation of soil behaviour and insight into how the principles are applied in the practical engineering context It is the author s view that in addition to having a sound knowledge of the scientific and mathematical aspects of soil mechanics a fully trained geotechnical engineer also requires a knowledge of geology soil profiles and groundwater conditions More emphasis is therefore placed on the application of soil mechanics in the ground rather than on the behaviour of soils in the artificial environment of the laboratory There are many detailed and instructive line illustrations included in all chapters together with useful and informative tabular data Worked examples appear in most chapters and there are numerous self test problems with answers provided

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**Soil Mechanics & Foundation Engineering:** Raj, P. Purushothama, 2007 Soil Mechanics and Foundation Engineering deals with its principles in an elegant yet simplified manner in this text It presents all the material required for a firm background in the subject reinforcing theoretical aspects with sound practical

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*Notes on Principles & Applications of Soil Mechanics* United States. Army. Corps of Engineers, 1939

**THEORY AND PRACTICE OF FOUNDATION DESIGN** M. N. SOM, S. C. DAS, 2003-01-01 This comprehensive text on foundation design is intended to introduce students of civil engineering architecture and environmental disciplines to the fundamentals of designing sound foundations and their implementation It offers an in depth coverage of pre and post design methodologies that include soil identification site investigation interpretation of soil data and design parameters foundations on different soil types through to settlements seismic responses and construction concerns Though the book is woven around principles of foundation design it also incorporates application aspects that bridge theory and practice As an issue of contemporary importance it discusses geotechnical details of developing earthquake resistant designs for different soil types In addition the authors provide an extensive account of ground improvement techniques Supported by the abundance of real world events situations and examples that help students master the text concepts this volume becomes an incisive text and reference guide

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