



## Analysis and Design of Shallow and Deep Foundations

By Reese, Lymon C.; Isenhower, William M.; Wang, Shin-Tower

Wiley, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.List of Symbols and Notations.1. Introduction to Part 1.1.1 Historical Use of Foundations.1.2 Kinds of Foundations and their Uses.Spread Footings and Mats.Deep Foundations.Hybrid Foundations.1.3 Concepts in Design.Site Visit.Gain Information of Geology at Site.Obtain Information on Magnitude and Nature of Loads on Foundation.Obtain Information on Properties of Soil at Site.Consideration of Long-term Effects.Appropriate Attention to Analysis.Recommendations for Tests of Deep Foundations.Observe Behavior of Foundation for Completed Structure.Problems.References.2. Engineering Geology.2.1 Introduction.2.2 Nature of Soil Affected by Geologic Processes.Nature of Transported Soil.Weathering and Residual Soil.Nature of Soil Affected by Volcanic Processes.Nature of Glaciated Soil.Karst Geology.2.3 Available Data on Regions in the United States.2.4 U.S. Geological Survey and State Agencies.2.5 Examples of Application of Engineering Geology.2.6 Site Visit.Problems.References.3. Fundamentals of Soil Mechanics.3.1 Introduction.3.2 Data Needed to Design Foundations.Solid and Rock Classification.Location of the Water Table.Shear Strength and Density.Deformability Characteristics.Prediction of Changes in Conditions and the Environment.3.3 Nature of Soil.Grain-size Distribution.Types of Soil and Rock.Mineralogy of Common Geologic Materials.Water Content and Void Ratio.Saturation of Soil.Weight-Volume Relationships.Atterberg Limits and the Unified Soils Classification System.3.4 Concept of Effective Stress.Laboratory Tests for Consolidation of Soils.Spring and Piston Model of Consolidation.Determination of Initial...



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