



Foundation Design: Principles and Practices (2nd Edition)

By Coduto, Donald P.

Prentice Hall, 2000. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: (NOTE: Most chapters include Questions and Practice Problems, Summary, and Comprehensive Questions and Practice Problems.)I. GENERAL PRINCIPLES. 1. Foundations in Civil Engineering. The Emergence of Modern Foundation Engineering. The Foundation Engineer. Uncertainties. Building Codes. Classification of Foundations. 2. Performance Requirements. Design Loads. Strength Requirements. Serviceability Requirements. Constructibility Requirements. Economic Requirements. 3. Soil Mechanics. Soil Composition. Soil Classification. Groundwater. Stress. Compressibility and Settlement. Strength. 4. Site Exploration and Characterization. Site Exploration. Laboratory Testing. In-Situ Testing. Synthesis of Field and Laboratory Data. Economics. II. SHALLOW FOUNDATION ANALYSIS AND DESIGN. 5. Shallow Foundations. Spread Footings. Mats. Bearing Pressure. 6. Shallow Foundations Bearing Capacity. Bearing Capacity Failures. Bearing Capacity Analyses in Soil General Shear Case. Groundwater Effects. Allowable Bearing Capacity. Selection of Soil Strength Parameters. Bearing Capacity Analyses Local and Punching Shear Cases. Bearing Capacity on Layered Soils. Accuracy of Bearing Capacity Analyses. Bearing Spreadsheet. 7. Shallow Foundations Settlement. Design Requirements. Overview of Settlement Analysis Methods. Induced Stresses beneath Shallow Foundations. Settlement Analyses Based on Laboratory Tests. Settlement Spreadsheet. Settlement Analyses Based on In-Situ Tests. Schmertmann Spreadsheet. Settlement of

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