



Introduction to Geotechnical Engineering, International Edition

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Condition: New. Publisher/Verlag: Cengage Learning EMEA | 1. GEOTECHNICAL ENGINEERING. Geotechnical Engineering. Geotechnical Engineering Applications. Soil Parameters. References. 2. GRAIN-SIZE ANALYSIS. Introduction. Soil-Particle Size. General Soil Deposits. Some Local Terms for Soils. Grain-Size Analysis. Grain-Size Distribution Curve. Summary. Problems. References. 3. WEIGHT-VOLUME RELATIONSHIPS. Introduction. Volume Relationships. Weight Relationships. Specific Gravity of Soil Solids. Relationships Among Unit Weight, Void Ratio, Moisture Content, and Specific Gravity. Relationships Among Unit Weight, Porosity, and Moisture Content. Relative Density. Summary. Problems. References. 4. PLASTICITY AND SOIL CLASSIFICATION. Introduction. Consistency of Soils-Atterberg Limits. Liquid Limit (LL). Plastic Limit (PL). Shrinkage Limit (SL). Engineering Classification of Soil. AASHTO Soil Classification System. Unified Soil Classification System. Summary. Problems. References. 5. SOIL COMPACTION. Introduction. Compaction General Principles. Standard Proctor Test. Factors Affecting Compaction. Modified Proctor Test. Effect of Compaction on Cohesive Soil Properties. Field Compaction. Specifications for Field Compaction. Determination of Field Unit Weight of Compaction. Summary. Problems. References. 6. PERMEABILITY AND CAPILLARITY. Introduction. Darcy's Law. Hydraulic Conductivity. Laboratory Determination of Hydraulic Conductivity. Relationships for Hydraulic Conductivity-Granular Soil. Relationships for Hydraulic Conductivity-Cohesive Soils.



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