

## **ENGINEERING SOIL TESTING**

### **CHAPTER 1 Moisture Content Determination**

A Oven Drying Method

B Torsion Balance Moisture Meter Method

### **CHAPTER 2 Grain Size Analysis-Mechanical Method**

### **CHAPTER 3 Grain Size Analysis Hydrometer Method**

### **CHAPTER 4 Liquid and Plastic Limit Test**

### **CHAPTER 5 Shrinkage Factors Determination**

### **CHAPTER 6 Specific Gravity Test**

### **CHAPTER 7 Permeability Test**

A Variable Head Method

B Constant Head Method

### **CHAPTER 8 Compaction Test**

### **CHAPTER 9 Unconfined Compression Test**

A Compression Machine with Proving Ring as Load Measuring Device

B Screw Jack with Spring Compression as Load Measuring Device

### **CHAPTER 10 Direct Shear Test**

### **CHAPTER 11 In-Place Density Tests**

A Core Cutter Method

B Sand Replacement Method

### **CHAPTER 12 Triaxial Shear Test**

### **CHAPTER 13 Consolidation Test**

### **CHAPTER 14 Standard Penetration Test (SPT)**

### **CHAPTER 15 Vertical Plate Load Test**