



Foundation & Geotechnical Engineering

Ali Candogan

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The Art and Practice of Foundation Engineering (TAPFE) follows a manual of practice format focusing on the following technical areas in which the practicing engineer works.

- Chpt 1 - Ground Investigation (Geophysical, Geological, Geotechnical Surveys & Lab Tests),
- Chpt 2 - Shallow Foundations (Bearing & Settlement Analysis, Classification),
- Chpt 3 - Deep Foundations (Load Bearing & Settlement Design, Load Testing, Integrity Testing),
- Chpt 4 - Driven Piles (Dynamic Formulas, Production, Installation, Hammers & Driving Accessories, Driven Cast-in-Situ Techniques),
- Chpt 5 - Bored & Mini Piles, Caissons & Cofferdams (Design, Production, Machinery, etc),
- Chpt 6 - Deep Excavations (Engineering concepts, Excavation Support Walls),
- Chpt 7 - Ground Anchors (Classification, Installation, Stressing, etc),
- Chpt 8 - Excavation Support Wall Methods (Permeable and Impermeable walls, Diaphragm walls, Soil Nailing),
- Chpt 9 - Drilling (Parameters, Rotary, Roto-Percussive, Percussive, Duplex, Odex, Sonic Drilling and their Machinery),
- Chpt 10 - Grouting (Design Parameters and Permeation, Compaction, Fracture, Gravity & Jet Grouting Techniques),
- Chpt 11 - Grouting Materials, Mixtures & Machinery (Cementitious Suspensions, Chemical Solutions, Mixers, Agitators, Pumps, Packers, etc),
- Chpt 12 - Ground Improvement and Preloading (Concepts, Soil & Rock Improvement, Sand & Prefabricated Drains, etc),
- Chpt 13 - Vibrocompaction and Grouting (Vibroflotation, Vibro Replacement, Driven Cast-in-Situ Stone Piles, Various Grouting Techniques Used for Soil Improvement),
- Chpt 14 - Deep Soil Mixing and Dynamic Compaction (Soil Mixing materials, Techniques, Applicationa, Dynamic Compaction, Dynamic Replacement),
- Chpt 15 - Other Ground Improvement Techniques (Piling, Blasting, Geosynthetics, Bioengineering, Freezing, Electro-Chemical Improvement Techniques),
- Chpt 16 - Foundation Engineering for Dams and Tunnels (Classification, Drilling and Grouting Techniques)

Each topic in the book covers a variety of implementation techniques, materials, and the related machinery and equipment used in foundation engineering applied settings. Simple theoretical concepts, analysis methods, and design calculations are also presented to back up and demonstrate the various techniques discussed.

TAPFE has been written to meet the need for a practice oriented text for students and smooth the transition from student to practicing engineer. It is intended for use in senior or graduate level courses to assist students to learn how the engineering concepts learned in previous courses is used in the practice of foundation engineering.

TAPFE is also intended to serve as a reference text for practicing civil engineers. With its wide array of techniques and related machinery coverage, TAPFE serves as a valuable source to complement to the learning of those working on construction and design issues related to foundation engineering.

TAPFE's text, figures and tables are printed in g r e y s c a l e (black & white).

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