



CANADIAN FOUNDATION ENGINEERING MANUAL

4TH EDITION 2006



The CFEM (2006) provides background information and accepted design guidelines on geotechnical aspects of foundation engineering, as practiced in Canada. Portions of the manual are cross-referenced to the National Building Code of Canada (2005) and the Canadian Highway Bridge Design Code (2000 and 2005).

The chapter headings of the CFEM are:

1. Introduction
2. Definitions, Symbols and Units
3. Identification and Classification of Soil and Rock
4. Site Investigations
5. Special Site Conditions
6. Earthquake-Resistant Design
7. Foundation Design
8. Limit States and Limit States Design
9. Bearing Pressure on Rock
10. Bearing Capacity of Shallow Foundations on Soil
11. Settlement of Shallow Foundations
12. Drainage and Filter Design
13. Frost Action
14. Machine Foundations
15. Foundations on Expansive Soils
16. Site and Soil Improvement Techniques
17. Deep Foundations – Introduction
18. Geotechnical Design of Deep Foundations
19. Structural Design and Installation of Piles
20. Load Testing of Piles
21. Inspection of Deep Foundations
22. Control of Groundwater
23. Geosynthetics
24. Lateral Earth Pressures and Rigid Retaining Structures
25. Unsupported Excavations
26. Supported Excavations and Flexible Retaining Structures
27. Reinforced Soil Walls

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