



# Practical Foundation Engineering Handbook, 2nd Edition

*By Robert Wade Brown*

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**Practical Foundation Engineering Handbook, 2nd Edition** By Robert Wade Brown

Standard and advanced methods for every type of foundation engineering. Incorporating the expertise of a distinguished team of soil and foundation engineers, this expanded and updated Handbook clarifies and simplifies every part of the job, from site assessment through design and construction, to remediation of failed foundations. Here are proven, expert design alternatives for even substandard soil and challenging site conditions, with example problems for any type of structure. You get not only important how-to's, but equally vital how-not-to's that prevent costly damage to structures and professional reputations. Handy illustrations, charts, tables, and case-study examples ease your work. You also get full coverage of failure analysis and repairs. New in this edition are treatments of forensics investigations; grouting substandard soils; special coverage of lightly loaded foundations, pier and beam, as well as conventional and post-tension slabs; advice on litigation and role of expert witnesses; and much more.

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### **Editorial Review**

From the Back Cover

Dig into real solutions with this groundbreaking, problem-solving guide. Based on the expertise of a distinguished team of soil and foundation engineers, this expanded and updated Handbook clarifies and simplifies every part of the job, from site assessment through design, and construction, to remediation of failed foundations. A matchless solver of difficult problems, the Handbook offers proven, expert design alternatives for even substandard soil and challenging site conditions, with example problems for any type of structure.

Experts Lead You Through Standard and Advanced Methods for Every Type of Foundation Engineering

The Handbook gives you not only important how-to's, but equally vital how-not-to's that prevent costly damage to structures and professional reputations. Handy illustrations, charts, tables, and case-study examples ease your work. You also get full coverage of failure analysis and repairs--for dealing with the errors made by those who didn't use this book. With Practical Foundation Engineering Handbook and its math-minimizing strategies, you're ready to tackle any structural foundation project with confidence, efficiency, and the most comprehensive, up-to-date methods available anywhere.

Foundation, geotechnical, and soil engineering as well as repair experts provide the answers you want on--  
Appraisals Bearing Capacity Concrete Mix Properties Construction Issues Design Analysis Design Finalization Design Parameters Design Techniques (Piers, Piles, Slab on ground, Post Tension Slabs, Pier and Beams) Drilling (Piers) Earth Pressures Forensic Investigations Foundation Engineering Foundation Repair Requirements (Lightly loaded as well as high rise) Geotechnical Issues Grouting (Deep and Shallow Techniques) High-Rise/Heavy Construction Insurance Programs Legal Concerns Mud-jacking Non-Grouting Techniques Piers and Piles Preventive Maintenance Reinforced Concrete Repair Residential and Light Commercial Construction Retaining Systems Settlement Shimming Pier Caps Site Development Soil Improvement Soil Mechanics Soil Stabilization Stress Distribution Substandard Soils Underpinning Upheaval (Slab foundations) Water in Soils

NEW IN THIS EDITION \*Grouting substandard soils \*Forensics investigations \*Residential and light construction repair procedures and options; expanded material \*Nongrouting methods to improve substandard soils; expanded material \*Soil mechanics and foundation engineering, expanded \*Special coverage for lightly loaded foundations--pier and beam, as well as conventional and post-tension slabs \*Selecting the proper foundation repair method \*Advice on litigation and role of expert witnesses

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