

# **Soil Mechanics and Foundation Design : 201 Solved Problems**

## **Preface:**

The best way to learn and confirm what you've studied in Soil mechanics and Foundation Engineering is to practice answering problems. The main objective of this publication is to aid the Engineers taking the Professional Engineer (P.E.) exam and the California Geotechnical Engineer (G.E.) Exam. But, due to the large coverage of various topics, this publication will also prove to be invaluable to Instructors and students of Soil Mechanics and Foundation Design Classes. The instructors can get problem ideas and the students can pick up "experience" of geotechnical analysis and solving steps.

There are topics that are covered more heavily like soil settlement, shallow and deep foundations, earthwork calculations and retaining walls due to its emphasis in the licensing exams. In addition, I have chosen to select real world soil parameters, so that after becoming licensed, you can reference this book for refresher.

Because you undoubtedly have classical geotechnical textbooks in your personal library, I have not included any theory, charts and examples. It is outside the scope of solved problems book. However, since currently fps system is utilized in the USA, all the problems are in fps units with the exception of few permeability problems. Emphasis has been placed in writing down units in all the equations.

I look forward to hearing from you in how you have benefited and in ways we can improve future editions for better use. I sincerely hope you excel in the geotechnical portion of any exams you take.

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