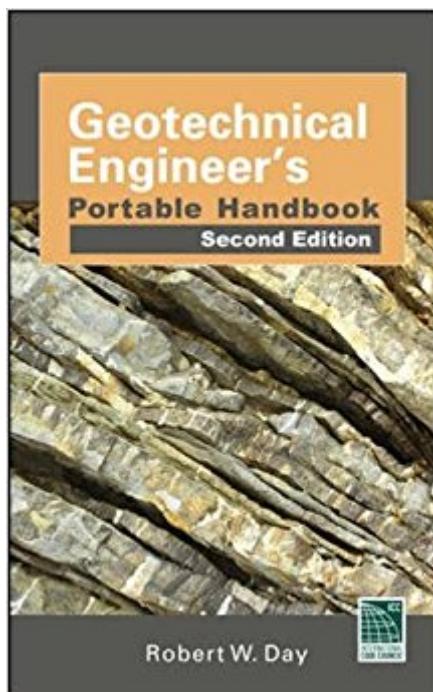


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# Geotechnical Engineers Portable Handbook, Second Edition (Mechanical Engineering)



## Synopsis

Instant access to the latest geotechnical engineering data Fully updated to include the 2012 International Building Code (IBC), Geotechnical Engineer's Portable Handbook, Second Edition, features a wealth of on-the-job geotechnical and construction related information in a convenient, quick-reference format. This practical resource is filled with essential data, formulas, and guidelines you can access right away. Detailed tables, charts, graphs, and illustrations are included throughout the book for ease of use in the field. Coverage includes: Field exploration Laboratory testing Soil and rock classification Phase relationships Effective stress and stress distribution Shear strength Permeability and seepage Settlement analyses Bearing capacity analyses Pavement and pipeline design Expansive soil Slope stability Geotechnical earthquake engineering Erosion analyses Retaining walls Deterioration Foundations Grading and other site improvement methods Groundwater and percolation tests Excavation, underpinning, and field lead tests Geosynthetics Instrumentation International Building Code regulations for soils International Building Code regulations for foundations

## Book Information

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## Customer Reviews

Robert W. Day is a leading geotechnical engineer and the principal engineer at American Geotechnical in San Diego, California. He is the author of more than 200 published technical papers

and several books, including two editions of Foundation Engineering Handbook and two editions of Forensic Geotechnical and Foundation Engineering.

I bought this last minute as an additional reference for the Civil Geotechnical PE exam. I don't typically perform geotechnical type work in my field and admittedly I didn't read the book thoroughly before the test. I did pass the PE exam and felt this book was a big part of it. Without divulging the nature of the exam questions I will say this book had very useful information in responding to many of the qualitative questions for which normal graduate level textbooks and review materials had nothing. I firmly believe I answered a number of the afternoon questions correctly due to this book. With so much information (and I mean this book talks about everything) this book is definitely a keeper even after the exam and it sits proudly on my cubicle bookcase next to my Engineering Licensure certificate.

I bought this book to use as a quick reference for looking up various specs, practices, and conversions on the job sites. Though a bit expensive, the book is worth its near \$60 price tag. If you have ever spent hours digging through old text books or the internet looking for specs or construction techniques then you know it's a pain in the \*ss. I bought this handbook because I wanted an all-inclusive source for everything. So far it has been money well spent. With Mr. Day's handbook you can find what you're looking for in a matter of several minutes. The handbook has just the right amount of knowledge about particular subjects, in my opinion. Using this quick reference has made my job much easier. It travels with me to all my jobs and sits on my desk at the office just in case I need it. So far everything that I've needed to know has been covered in the handbook. I even thought I'd stump it with geosynthetics, but Mr. Day had it covered. I would recommend this book to any engineering firm or contractors needing a quick and easy field guide to geotechnical engineering. I'll update my review as needed.

Bought this for the Geotechnical PE, so happy I did, it has a good glossary and appendix, if you have time, buy early there are tons of problems, but don't hesitate to buy late

Fit the bill and assisted in taking the PE. I am not a geotech and the format of the book seems dated and possibly foreign. Worth having at the PE exam.

This book is loaded with information. No Geotechnical engineer should be without it.

It appears to be a fairly comprehensive book. The only reason I'm rating it three stars is that the font in the paper format is tiny. I have trouble reading it even with my readers. I find the figures are even more difficult to see. I would also note that this is a fairly thick volume, which speaks to its contents, but as such is not something that I'd keep in my briefcase on a daily basis.

Used this book for the NCEES Civil PE Geotechnical Depth Exam. Amazing resource! Contains equations, diagrams and conceptual information.

Indispensable source for the PE Geotech exam.

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