



Soil Properties and their Correlations

By Michael Carter, Stephen P. Bentley

Download now

Read Online 

Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley

Soil Properties and their Correlations, Second Edition

Michael Carter, Geotechnical Consultant (Retired), UK

Stephen P Bentley, Reader in Engineering Geology, Cardiff University, UK

An essential guide to improving preliminary geotechnical analysis and design from limited data

Soil Properties and their Correlations, Second Edition provides a summary of commonly-used soil engineering properties and gives a wide range of correlations between the various properties, presented in the context of how they will be used in geotechnical design.

The book is divided into 11 chapters: Commonly-measured properties; Grading and plasticity; Density; Permeability, Consolidation and settlement; Shear strength; California bearing ratio; Shrinkage and swelling characteristics; Frost susceptibility; Susceptibility to combustion; and Soil-structure interfaces. In addition, there are two appendices: Soil classification systems; and Sampling methods.

This new, more comprehensive, edition provides material that would be of practical assistance to those faced with the problem of having to estimate soil behaviour from little or no laboratory test data.

Key features:

- Soil properties explained in practical terms.
- A large number of correlations between different soil properties.
- A valuable aid for assessing design values of properties.
- Clear statements on practical limitations and accuracy.

An invaluable source of reference for experienced professionals working on geotechnical design, it will also give students and early-career engineers an in-depth appreciation of the appropriate use of each property and the pitfalls to avoid.

 [Download Soil Properties and their Correlations ...pdf](#)

 [Read Online Soil Properties and their Correlations ...pdf](#)

Soil Properties and their Correlations

By Michael Carter, Stephen P. Bentley

Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley

Soil Properties and their Correlations, Second Edition

Michael Carter, Geotechnical Consultant (Retired), UK

Stephen P Bentley, Reader in Engineering Geology, Cardiff University, UK

An essential guide to improving preliminary geotechnical analysis and design from limited data

Soil Properties and their Correlations, Second Edition provides a summary of commonly-used soil engineering properties and gives a wide range of correlations between the various properties, presented in the context of how they will be used in geotechnical design.

The book is divided into 11 chapters: Commonly-measured properties; Grading and plasticity; Density; Permeability, Consolidation and settlement; Shear strength; California bearing ratio; Shrinkage and swelling characteristics; Frost susceptibility; Susceptibility to combustion; and Soil-structure interfaces. In addition, there are two appendices: Soil classification systems; and Sampling methods.

This new, more comprehensive, edition provides material that would be of practical assistance to those faced with the problem of having to estimate soil behaviour from little or no laboratory test data.

Key features:

- Soil properties explained in practical terms.
- A large number of correlations between different soil properties.
- A valuable aid for assessing design values of properties.
- Clear statements on practical limitations and accuracy.

An invaluable source of reference for experienced professionals working on geotechnical design, it will also give students and early-career engineers an in-depth appreciation of the appropriate use of each property and the pitfalls to avoid.

Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley Bibliography

- Rank: #2214165 in eBooks
- Published on: 2016-07-20
- Released on: 2016-07-20
- Format: Kindle eBook

 [Download Soil Properties and their Correlations ...pdf](#)

 [Read Online Soil Properties and their Correlations ...pdf](#)

Download and Read Free Online Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley

Editorial Review

From the Back Cover

Soil Properties and their Correlations, Second Edition

Michael Carter, Geotechnical Consultant (Retired), UK

Stephen P Bentley, Reader in Engineering Geology, Cardiff University, UK

An essential guide to improving preliminary geotechnical analysis and design from limited data

Soil Properties and their Correlations, Second Edition provides a summary of commonly-used soil engineering properties and gives a wide range of correlations between the various properties, presented in the context of how they will be used in geotechnical design.

The book is divided into 11 chapters: Commonly-measured properties; Grading and plasticity; Density; Permeability, Consolidation and settlement; Shear strength; California bearing ratio; Shrinkage and swelling characteristics; Frost susceptibility; Susceptibility to combustion; and Soil-structure interfaces. In addition, there are two appendices: Soil classification systems; and Sampling methods.

This new, more comprehensive, edition provides material that would be of practical assistance to those faced with the problem of having to estimate soil behaviour from little or no laboratory test data.

Key features:

- Soil properties explained in practical terms.
- A large number of correlations between different soil properties.
- A valuable aid for assessing design values of properties.
- Clear statements on practical limitations and accuracy.

An invaluable source of reference for experienced professionals working on geotechnical design, it will also

give students and early-career engineers an in-depth appreciation of the appropriate use of each property and the pitfalls to avoid.

About the Author

Mike Carter is a civil and geotechnical engineer whose experience ranges from the practical, including site-based supervision of construction work, to the analytical, including the preparation of geotechnical design manuals and computer-based methods for consulting engineers. He has worked both in the UK and overseas; for consulting engineers, a contractor, a specialist site investigation contractor and as a university lecturer. In terms of engineering complexity, projects he has worked on have varied from the basic, such rural roads in East Africa and India, to the large and complex, such as the construction of an artificial island for Macau International Airport. He has also been involved in the analysis and rectification of numerous earthworks failures and has worked as a lecturer and trainer in the UK, Indonesia and Sri Lanka. He is the author of three books on geotechnical engineering.

Dr Bentley is an Engineering Geologist. During his long academic career at Cardiff University he has acted as a consultant to many large UK companies including the Department of the Environment (UK). He has also been retained as a consultant to the Departments of Public Works in Brunei and Saudi Arabia. He has supervised 12 PhD and over 60 MSc students; most of the PhD research topics were collaborative with industry. He has published 110 technical papers. Highlights of his research work include the first edition of the textbook 'Correlation of Soil Properties' which was adopted by many consultancy firms as a standard reference book. Also the visualisation software, 'STRATA', which was successfully commercialised and sold into over 100 companies in 12 countries worldwide.

Users Review

From reader reviews:

Robert Johnson:

Information is provisions for individuals to get better life, information today can get by anyone from everywhere. The information can be a understanding or any news even an issue. What people must be consider if those information which is within the former life are hard to be find than now's taking seriously which one is appropriate to believe or which one often the resource are convinced. If you get the unstable resource then you obtain it as your main information it will have huge disadvantage for you. All those possibilities will not happen within you if you take Soil Properties and their Correlations as your daily resource information.

Stephen Hilton:

Spent a free time for you to be fun activity to perform! A lot of people spent their sparetime with their family, or their particular friends. Usually they performing activity like watching television, gonna beach, or picnic within the park. They actually doing same thing every week. Do you feel it? Do you need to something different to fill your current free time/ holiday? Could possibly be reading a book may be option to fill your totally free time/ holiday. The first thing you will ask may be what kinds of guide that you should read. If you want to test look for book, may be the reserve untitled Soil Properties and their Correlations can

be great book to read. May be it can be best activity to you.

Ruth Williams:

Reading can called thoughts hangout, why? Because if you find yourself reading a book especially book entitled Soil Properties and their Correlations your mind will drift away trough every dimension, wandering in each aspect that maybe mysterious for but surely might be your mind friends. Imaging each and every word written in a guide then become one web form conclusion and explanation that will maybe you never get just before. The Soil Properties and their Correlations giving you another experience more than blown away your thoughts but also giving you useful details for your better life in this particular era. So now let us teach you the relaxing pattern at this point is your body and mind will likely be pleased when you are finished looking at it, like winning a casino game. Do you want to try this extraordinary wasting spare time activity?

Jason Norfleet:

Within this era which is the greater man or who has ability to do something more are more treasured than other. Do you want to become one of it? It is just simple strategy to have that. What you must do is just spending your time very little but quite enough to experience a look at some books. One of several books in the top listing in your reading list is actually Soil Properties and their Correlations. This book which is qualified as The Hungry Hillside can get you closer in getting precious person. By looking way up and review this reserve you can get many advantages.

**Download and Read Online Soil Properties and their Correlations
By Michael Carter, Stephen P. Bentley #BZKR7ECYXU1**

Read Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley for online ebook

Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley books to read online.

Online Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley ebook PDF download

Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley Doc

Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley Mobipocket

Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley EPub

BZKR7ECYXU1: Soil Properties and their Correlations By Michael Carter, Stephen P. Bentley