



# Handbook of Tropical Residual Soils Engineering

From CRC Press

[Download now](#)

[Read Online](#) 

## Handbook of Tropical Residual Soils Engineering From CRC Press

Residual soils are found in many parts of the world. Like other soils, they are used extensively in construction, either to build upon, or as construction material. They are formed when the rate of rock weathering is more rapid than transportation of the weathered particles by e.g., water, gravity and wind, which results in a large share of the soils formed remaining in place. The soils typically retain many of the characteristics of the parent rock. In a tropical region, residual soil layers can be very thick, sometimes extending to hundreds of meters before reaching un-weathered rock. Unlike the more familiar transported sediment soil, the engineering properties and behaviour of tropical residual soils may vary widely from place to place depending upon the rock of origin and the local climate during their formation; and hence are more difficult to predict and model mathematically. Despite their abundance and significance our knowledge and understanding of these soils is not as extensive as that of transported sediment soil.

Written by residual soil specialists from various parts of the world, this unique handbook presents data, knowledge and expertise on the subject. It provides insight into the engineering behaviour of tropical residual soils, which will be applicable to small or extensive construction works worldwide on such soils. This book covers almost all aspects of residual soils, from genesis, classification, formation, sampling and testing to behaviour of weakly bonded and unsaturated soil, volume change and shear strength. It features chapters on applications in slopes and foundation, as well as dedicated parts on residual soils in India, Hong Kong and Southeast Asia. A large number of graphs, tables, maps and references throughout the text provide further detail and insight.

This volume is intended as a reference guide for practitioners, researchers and advanced students in civil, construction and geological engineering. Unique in its coverage of the subject, it may serve as a standard that benefits every engineer involved in geological, foundation and construction work in tropical residual soils.

 [Download Handbook of Tropical Residual Soils Engineering ...pdf](#)

 [Read Online Handbook of Tropical Residual Soils Engineering ...pdf](#)

# **Handbook of Tropical Residual Soils Engineering**

*From CRC Press*

## **Handbook of Tropical Residual Soils Engineering From CRC Press**

Residual soils are found in many parts of the world. Like other soils, they are used extensively in construction, either to build upon, or as construction material. They are formed when the rate of rock weathering is more rapid than transportation of the weathered particles by e.g., water, gravity and wind, which results in a large share of the soils formed remaining in place. The soils typically retain many of the characteristics of the parent rock. In a tropical region, residual soil layers can be very thick, sometimes extending to hundreds of meters before reaching un-weathered rock. Unlike the more familiar transported sediment soil, the engineering properties and behaviour of tropical residual soils may vary widely from place to place depending upon the rock of origin and the local climate during their formation; and hence are more difficult to predict and model mathematically. Despite their abundance and significance our knowledge and understanding of these soils is not as extensive as that of transported sediment soil.

Written by residual soil specialists from various parts of the world, this unique handbook presents data, knowledge and expertise on the subject. It provides insight into the engineering behaviour of tropical residual soils, which will be applicable to small or extensive construction works worldwide on such soils. This book covers almost all aspects of residual soils, from genesis, classification, formation, sampling and testing to behaviour of weakly bonded and unsaturated soil, volume change and shear strength. It features chapters on applications in slopes and foundation, as well as dedicated parts on residual soils in India, Hong Kong and Southeast Asia. A large number of graphs, tables, maps and references throughout the text provide further detail and insight.

This volume is intended as a reference guide for practitioners, researchers and advanced students in civil, construction and geological engineering. Unique in its coverage of the subject, it may serve as a standard that benefits every engineer involved in geological, foundation and construction work in tropical residual soils.

## **Handbook of Tropical Residual Soils Engineering From CRC Press Bibliography**

- Rank: #4142738 in Books
- Published on: 2012-05-24
- Original language: English
- Number of items: 1
- Dimensions: 9.90" h x 1.40" w x 6.90" l, 2.51 pounds
- Binding: Hardcover
- 536 pages



[Download Handbook of Tropical Residual Soils Engineering ...pdf](#)



[Read Online Handbook of Tropical Residual Soils Engineering ...pdf](#)



## **Editorial Review**

### **About the Author**

Professor Bujang B.K. Huat graduated in 1983 from the Polytechnic of Central London, UK, and obtained his MSc and PhD at the Imperial College London, and the Victoria University Manchester, UK, in 1986 and 1991 respectively. He has spent his professional career as a Professor in Geotechnical Engineering, in the Department of Civil Engineering, Universiti Putra Malaysia, one of Malaysia's five research universities. Currently he serves as the Dean of School of Graduate Studies of the same university. His special area of interest is in the field of geotechnical and geological engineering, and slope engineering, and has authored and co-authored 18 books, edited 10 conference proceedings, and published more than 100 journal and conference proceedings papers in the field of soil mechanics and foundation engineering.

David G. Toll is Professor of Geotechnical Engineering in the School of Engineering and Computer Sciences at Durham University, UK. After graduating from Cardiff University with a BSc in Civil Engineering in 1979 he worked for Soil Mechanics Ltd and Engineering & Resources Consultants, before joining Imperial College, London as a Research Assistant, where he gained his PhD. He joined Durham University in 1988. He has been Visiting Professor at the National University of Singapore and Tongji University, China and held Research Fellowships at Nanyang Technological University, Singapore, University of Western Australia and Newcastle University, Australia. His research areas are unsaturated & tropical soils and geoinformatics. He has co-authored 7 edited books and conference proceedings and published more than 150 journal and conference proceedings papers. He is Chair of Joint Technical Committee 2 on Data Representation for the three International Societies (ISSMGE, ISRM, IAEG), a member of TC 106 on Unsaturated Soils of ISSMGE and Chair of the Northern Geotechnical Group of the Institution of Civil Engineers, UK.

Arun Prasad is Associate Professor of Geotechnical Engineering in the Institute of Technology at Banaras Hindu University, India. He graduated with a BSc in Civil Engineering in 1986 from Utkal University, India. He obtained MSc and PhD from Sambalpur and Devi Ahilya University, India in 1989 and 2000 respectively. He has worked as Post-Doctoral Researcher at Universiti Putra Malaysia during 2009–10. His special areas of research are in the soil stabilization of soft and contaminated soils. He has co-authored one book on Geotechnical Engineering and has published more than 50 papers in journals and conference proceedings.

## **Users Review**

### **From reader reviews:**

#### **Bridget Carter:**

In this 21st century, people become competitive in every single way. By being competitive right now, people have to do something to make them survive, being in the middle of the particular crowded place and notice by simply surrounding. One thing that oftentimes many people have underestimated the item for a while is reading. Yep, by reading a e-book your ability to survive raise then having chance to stand than other is high. For you personally who want to start reading a new book, we give you that Handbook of Tropical Residual Soils Engineering book as starter and daily reading e-book. Why, because this book is more than just a book.

**Nicolas Jones:**

Do you considered one of people who can't read enjoyable if the sentence chained from the straightway, hold on guys this specific aren't like that. This Handbook of Tropical Residual Soils Engineering book is readable by you who hate the straight word style. You will find the data here are arrange for enjoyable reading experience without leaving possibly decrease the knowledge that want to supply to you. The writer associated with Handbook of Tropical Residual Soils Engineering content conveys thinking easily to understand by most people. The printed and e-book are not different in the written content but it just different such as it. So , do you still thinking Handbook of Tropical Residual Soils Engineering is not loveable to be your top list reading book?

**Buddy Beckstead:**

Do you have something that you enjoy such as book? The reserve lovers usually prefer to pick book like comic, brief story and the biggest some may be novel. Now, why not trying Handbook of Tropical Residual Soils Engineering that give your satisfaction preference will be satisfied through reading this book. Reading addiction all over the world can be said as the means for people to know world considerably better then how they react towards the world. It can't be explained constantly that reading practice only for the geeky man but for all of you who wants to possibly be success person. So , for every you who want to start looking at as your good habit, you are able to pick Handbook of Tropical Residual Soils Engineering become your personal starter.

**Stephany Garcia:**

As a student exactly feel bored to help reading. If their teacher questioned them to go to the library in order to make summary for some reserve, they are complained. Just minor students that has reading's internal or real their pastime. They just do what the teacher want, like asked to go to the library. They go to presently there but nothing reading seriously. Any students feel that reading is not important, boring along with can't see colorful photos on there. Yeah, it is to be complicated. Book is very important for you. As we know that on this age, many ways to get whatever we really wish for. Likewise word says, many ways to reach Chinese's country. Therefore this Handbook of Tropical Residual Soils Engineering can make you experience more interested to read.

**Download and Read Online Handbook of Tropical Residual Soils Engineering From CRC Press #307RJ54A2GZ**

# **Read Handbook of Tropical Residual Soils Engineering From CRC Press for online ebook**

Handbook of Tropical Residual Soils Engineering From CRC Press 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 Handbook of Tropical Residual Soils Engineering From CRC Press books to read online.

## **Online Handbook of Tropical Residual Soils Engineering From CRC Press ebook PDF download**

**Handbook of Tropical Residual Soils Engineering From CRC Press Doc**

**Handbook of Tropical Residual Soils Engineering From CRC Press Mobipocket**

**Handbook of Tropical Residual Soils Engineering From CRC Press EPub**

**307RJ54A2GZ: Handbook of Tropical Residual Soils Engineering From CRC Press**