



Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics)

By Catherine O'Sullivan

[Download now](#)

[Read Online](#) 

Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan

Particulate discrete element analysis is becoming increasingly popular for research in geomechanics as well as geology, chemical engineering, powder technology, petroleum engineering and in studying the physics of granular materials. With increased computing power, practising engineers are also becoming more interested in using this technology for analysis in industrial applications. This is the first single work on Discrete Element Modelling (DEM) providing the information to get started with this powerful numerical modelling approach.

Written by an independent author with experience both in developing DEM codes and using commercial codes, this book provides the basic details of the numerical method and the approaches used to interpret the results of DEM simulations. Providing a basic overview of the numerical method, *Particulate Discrete Element Modelling* discusses issues related to time integration and numerical stability, particle types, contact modelling and boundary conditions. It summarizes approaches to interpret DEM data so that users can maximize their insight into the material response using DEM. The aim of this book is to provide both users and prospective users of DEM with a concise reference book that includes tips to optimize their usage.

Particulate Discrete Element Modelling is suitable both for first time DEM analysts as well as more experienced users. It will be of use to professionals, researchers and higher level students, as it presents a theoretical overview of DEM as well as practical guidance on running DEM simulations and interpreting DEM simulation data.



[Download Particulate Discrete Element Modelling: A Geomecha ...pdf](#)

 [Read Online Particulate Discrete Element Modelling: A Geomec ...pdf](#)

Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics)

By Catherine O'Sullivan

Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan

Particulate discrete element analysis is becoming increasingly popular for research in geomechanics as well as geology, chemical engineering, powder technology, petroleum engineering and in studying the physics of granular materials. With increased computing power, practising engineers are also becoming more interested in using this technology for analysis in industrial applications. This is the first single work on Discrete Element Modelling (DEM) providing the information to get started with this powerful numerical modelling approach.

Written by an independent author with experience both in developing DEM codes and using commercial codes, this book provides the basic details of the numerical method and the approaches used to interpret the results of DEM simulations. Providing a basic overview of the numerical method, *Particulate Discrete Element Modelling* discusses issues related to time integration and numerical stability, particle types, contact modelling and boundary conditions. It summarizes approaches to interpret DEM data so that users can maximize their insight into the material response using DEM. The aim of this book is to provide both users and prospective users of DEM with a concise reference book that includes tips to optimize their usage.

Particulate Discrete Element Modelling is suitable both for first time DEM analysts as well as more experienced users. It will be of use to professionals, researchers and higher level students, as it presents a theoretical overview of DEM as well as practical guidance on running DEM simulations and interpreting DEM simulation data.

Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan Bibliography

- Sales Rank: #1773640 in Books
- Brand: Brand: CRC Press
- Published on: 2011-05-17
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.25" w x 6.14" l, 2.08 pounds
- Binding: Hardcover
- 576 pages



[Download Particulate Discrete Element Modelling: A Geomecha ...pdf](#)



[Read Online Particulate Discrete Element Modelling: A Geomec ...pdf](#)

Download and Read Free Online Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan

Editorial Review

Users Review

From reader reviews:

Joan Henderson:

Do you have favorite book? Should you have, what is your favorite's book? Reserve is very important thing for us to learn everything in the world. Each book has different aim or maybe goal; it means that guide has different type. Some people experience enjoy to spend their time for you to read a book. They can be reading whatever they acquire because their hobby is usually reading a book. How about the person who don't like examining a book? Sometime, man feel need book if they found difficult problem as well as exercise. Well, probably you will want this Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics).

Lily Pawlak:

Here thing why this particular Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) are different and reliable to be yours. First of all studying a book is good but it really depends in the content of it which is the content is as yummy as food or not. Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) giving you information deeper and different ways, you can find any publication out there but there is no book that similar with Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics). It gives you thrill reading through journey, its open up your current eyes about the thing that happened in the world which is possibly can be happened around you. It is possible to bring everywhere like in recreation area, café, or even in your technique home by train. For anyone who is having difficulties in bringing the branded book maybe the form of Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) in e-book can be your option.

Alex Jose:

Spent a free time to be fun activity to perform! A lot of people spent their leisure time with their family, or all their friends. Usually they doing activity like watching television, going to beach, or picnic within the park. They actually doing same task every week. Do you feel it? Would you like to something different to fill your own personal free time/ holiday? Can be reading a book could be option to fill your totally free time/ holiday. The first thing you ask may be what kinds of reserve that you should read. If you want to attempt look for book, may be the reserve untitled Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) can be good book to read. May be it can be best activity to you.

Craig Nazario:

Beside this Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) in your phone, it could give you a way to get more close to the new knowledge or facts. The information and the knowledge you will get here is fresh from the oven so don't become worry if you feel like an older people live in narrow small town. It is good thing to have Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) because this book offers to your account readable information. Do you at times have book but you don't get what it's exactly about. Oh come on, that won't happen if you have this within your hand. The Enjoyable set up here cannot be questionable, just like treasuring beautiful island. Techniques you still want to miss it? Find this book in addition to read it from right now!

Download and Read Online Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan #DITSF34EBNU

Read Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan for online ebook

Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan 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 Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan books to read online.

Online Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan ebook PDF download

Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan Doc

Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan MobiPocket

Particulate Discrete Element Modelling: A Geomechanics Perspective (Applied Geotechnics) By Catherine O'Sullivan EPub