



# Electrokinetics for Petroleum and Environmental Engineers

*George V. Chilingar, Mohammed Haroun*

Download now

Read Online 

[Click here](#) if your download doesn't start automatically

# Electrokinetics for Petroleum and Environmental Engineers

*George V. Chilingar, Mohammed Haroun*

**Electrokinetics for Petroleum and Environmental Engineers** George V. Chilingar, Mohammed Haroun

Electrokinetics is a term applied to a group of physicochemical phenomena involving the transport of charges, action of charged particles, effects of applied electric potential and fluid transport in various porous media to allow for a desired migration or flow to be achieved. These phenomena include electrokinetics, electroosmosis, ion migration, electrophoresis, streaming potential and electroviscosity. These phenomena are closely related and all contribute to the transport and migration of different ionic species and chemicals in porous media. The physicochemical and electrochemical properties of a porous medium and the pore fluid, and the magnitudes of the applied electrical potential all impact the direction and velocity of the fluid flow. Also, an electrical potential is generated upon the forced passage of fluid carrying charged particles through a porous medium.

The use of electrokinetics in the field of petroleum and environmental engineering was groundbreaking when George Chilingar pioneered its use decades ago, but it has only been in recent years that its full potential has been studied. This is the first volume of its kind ever written, offering the petroleum or environmental engineer a practical “how to” book on using electrokinetics for more efficient and better oil recovery and recovery from difficult reservoirs.

This groundbreaking volume is a must-have for any petroleum engineer working in the field, and for students and faculty in petroleum engineering departments worldwide.

 [Download Electrokinetics for Petroleum and Environmental Enginee ...pdf](#)

 [Read Online Electrokinetics for Petroleum and Environmental Engin ...pdf](#)

**Download and Read Free Online Electrokinetics for Petroleum and Environmental Engineers George V. Chilingar, Mohammed Haroun**

---

## **Download and Read Free Online Electrokinetics for Petroleum and Environmental Engineers George V. Chilingar, Mohammed Haroun**

---

### **From reader reviews:**

#### **Howard Depriest:**

Do you have favorite book? Should you have, what is your favorite's book? Book is very important thing for us to understand everything in the world. Each publication has different aim or goal; it means that publication has different type. Some people really feel enjoy to spend their time and energy to read a book. They are reading whatever they consider because their hobby is definitely reading a book. Why not the person who don't like studying a book? Sometime, individual feel need book whenever they found difficult problem or even exercise. Well, probably you should have this Electrokinetics for Petroleum and Environmental Engineers.

#### **Gerald James:**

Reading a e-book can be one of a lot of task that everyone in the world loves. Do you like reading book therefore. There are a lot of reasons why people fantastic. First reading a e-book will give you a lot of new info. When you read a guide you will get new information due to the fact book is one of a number of ways to share the information or maybe their idea. Second, looking at a book will make a person more imaginative. When you reading through a book especially fiction book the author will bring that you imagine the story how the characters do it anything. Third, you are able to share your knowledge to others. When you read this Electrokinetics for Petroleum and Environmental Engineers, you can tells your family, friends and soon about yours reserve. Your knowledge can inspire the mediocre, make them reading a book.

#### **Gayle Skinner:**

The reason why? Because this Electrokinetics for Petroleum and Environmental Engineers is an unordinary book that the inside of the book waiting for you to snap that but latter it will zap you with the secret the item inside. Reading this book next to it was fantastic author who also write the book in such awesome way makes the content inside of easier to understand, entertaining method but still convey the meaning thoroughly. So , it is good for you for not hesitating having this any more or you going to regret it. This book will give you a lot of benefits than the other book get such as help improving your expertise and your critical thinking technique. So , still want to postpone having that book? If I were you I will go to the reserve store hurriedly.

#### **Marilyn McDermott:**

Reading a book to get new life style in this calendar year; every people loves to go through a book. When you learn a book you can get a great deal of benefit. When you read books, you can improve your knowledge, mainly because book has a lot of information on it. The information that you will get depend on what types of book that you have read. If you would like get information about your research, you can read education books, but if you want to entertain yourself you can read a fiction books, this kind of us novel, comics, in addition to soon. The Electrokinetics for Petroleum and Environmental Engineers provide you

with new experience in reading a book.

**Download and Read Online Electrokinetics for Petroleum and  
Environmental Engineers George V. Chilingar, Mohammed Haroun  
#RAP1WOSH95M**

## **Read Electrokinetics for Petroleum and Environmental Engineers by George V. Chilingar, Mohammed Haroun for online ebook**

Electrokinetics for Petroleum and Environmental Engineers by George V. Chilingar, Mohammed Haroun 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 Electrokinetics for Petroleum and Environmental Engineers by George V. Chilingar, Mohammed Haroun books to read online.

### **Online Electrokinetics for Petroleum and Environmental Engineers by George V. Chilingar, Mohammed Haroun ebook PDF download**

#### **Electrokinetics for Petroleum and Environmental Engineers by George V. Chilingar, Mohammed Haroun Doc**

**Electrokinetics for Petroleum and Environmental Engineers by George V. Chilingar, Mohammed Haroun Mobipocket**

**Electrokinetics for Petroleum and Environmental Engineers by George V. Chilingar, Mohammed Haroun EPub**

**Electrokinetics for Petroleum and Environmental Engineers by George V. Chilingar, Mohammed Haroun Ebook online**

**Electrokinetics for Petroleum and Environmental Engineers by George V. Chilingar, Mohammed Haroun Ebook PDF**