

A Guide to First-Passage Processes

Sidney Redner

Download now

Click here if your download doesn"t start automatically

A Guide to First-Passage Processes

Sidney Redner

A Guide to First-Passage Processes Sidney Redner

First-passage properties underlie a wide range of stochastic processes, such as diffusion-limited growth, neuron firing and the triggering of stock options. This book provides a unified presentation of first-passage processes, which highlights its interrelations with electrostatics and the resulting powerful consequences. The author begins with a presentation of fundamental theory including the connection between the occupation and first-passage probabilities of a random walk, and the connection to electrostatics and current flows in resistor networks. The consequences of this theory are then developed for simple, illustrative geometries including the finite and semi-infinite intervals, fractal networks, spherical geometries and the wedge. Various applications are presented including neuron dynamics, self-organized criticality, diffusionlimited aggregation, the dynamics of spin systems and the kinetics of diffusion-controlled reactions. Firstpassage processes provide an appealing way for graduate students and researchers in physics, chemistry, theoretical biology, electrical engineering, chemical engineering, operations research and finance to understand all of these systems.



Download A Guide to First-Passage Processes ...pdf



Read Online A Guide to First-Passage Processes ...pdf

Download and Read Free Online A Guide to First-Passage Processes Sidney Redner

From reader reviews:

Robert Frith:

You are able to spend your free time to read this book this e-book. This A Guide to First-Passage Processes is simple to deliver you can read it in the park your car, in the beach, train and soon. If you did not get much space to bring typically the printed book, you can buy the particular e-book. It is make you better to read it. You can save the particular book in your smart phone. And so there are a lot of benefits that you will get when you buy this book.

Richard Barbosa:

As we know that book is significant thing to add our expertise for everything. By a publication we can know everything we want. A book is a set of written, printed, illustrated or perhaps blank sheet. Every year was exactly added. This publication A Guide to First-Passage Processes was filled concerning science. Spend your spare time to add your knowledge about your scientific disciplines competence. Some people has distinct feel when they reading some sort of book. If you know how big benefit from a book, you can feel enjoy to read a guide. In the modern era like at this point, many ways to get book which you wanted.

Marcie Johnson:

A lot of e-book has printed but it differs. You can get it by world wide web on social media. You can choose the top book for you, science, witty, novel, or whatever simply by searching from it. It is known as of book A Guide to First-Passage Processes. You can contribute your knowledge by it. Without leaving behind the printed book, it could add your knowledge and make you actually happier to read. It is most significant that, you must aware about guide. It can bring you from one place to other place.

Sylvia Ferland:

Some people said that they feel bored when they reading a e-book. They are directly felt that when they get a half regions of the book. You can choose the actual book A Guide to First-Passage Processes to make your own personal reading is interesting. Your skill of reading skill is developing when you similar to reading. Try to choose simple book to make you enjoy you just read it and mingle the sensation about book and looking at especially. It is to be 1st opinion for you to like to open up a book and study it. Beside that the publication A Guide to First-Passage Processes can to be a newly purchased friend when you're sense alone and confuse in what must you're doing of the time.

Download and Read Online A Guide to First-Passage Processes

Sidney Redner #7RYA2QVLJG1

Read A Guide to First-Passage Processes by Sidney Redner for online ebook

A Guide to First-Passage Processes by Sidney Redner 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 A Guide to First-Passage Processes by Sidney Redner books to read online.

Online A Guide to First-Passage Processes by Sidney Redner ebook PDF download

A Guide to First-Passage Processes by Sidney Redner Doc

A Guide to First-Passage Processes by Sidney Redner Mobipocket

A Guide to First-Passage Processes by Sidney Redner EPub