



# First-Passage Phenomena and Their Applications

*Ralf Et Al Metzler*

Download now

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

# First-Passage Phenomena and Their Applications

*Ralf Et Al Metzler*

## First-Passage Phenomena and Their Applications Ralf Et Al Metzler

The book contains review articles on recent advances in first-passage phenomena and applications contributed by leading international experts. It is intended for graduate students and researchers who are interested in learning about this intriguing and important topic.

### Contents:

- Arrival Statistics and Exploration Properties of Mortal Walkers (*S B Yuste, E Abad and K Lindenberg*)
- First Passage of a Randomly Accelerated Particle (*T W Burkhardt*)
- First Passage Problems in Anomalous Diffusion (*A Rosso and A Zoia*)
- First-Passage Times of Intermittent Random Walks (*O Bénichou and R Voituriez*)
- First-Passage Phenomena on Finite Inhomogeneous Networks (*E Agliari and D Cassi*)
- Effective Spectral Dimension in Scale-Free Networks (*S Hwang, D-S Lee and B Kahng*)
- First-Passage Statistics for Random Walks in Bounded Domains (*R Voituriez and O Bénichou*)
- First Passage Behavior of Multi-Dimensional Fractional Brownian Motion and Application to Reaction Phenomena (*J-H Jeon, A V Chechkin and R Metzler*)
- Trajectory-to-Trajectory Fluctuations in First-Passage Phenomena in Bounded Domains (*T G Mattos, C Mejía-Monasterio, R Metzler, G Oshanin and G Schehr*)
- Exact Record and Order Statistics of Random Walk via First-Passage Ideas (*G Schehr and S N Majumdar*)
- First Passage in a Conical Geometry and Ordering of Brownian Particles (*E Ben-Naim and P L Krapivsky*)
- First Passage Time Problems in Biophysical Jump Processes with Fast Kinetics (*P C Bressloff and J M Newby*)
- First Passage Problems in Biology (*T Chou and M R D'Orsogna*)
- The Effect of Detection Mechanisms on Spatial Search and Foraging (*D Campos and V Méndez*)
- Search in Random Media with Lévy Flights (*E Gelenbe and O H Abdelrahman*)
- Exit Strategies: Visual Search and the Quitting Time Problem (*T S Horowitz*)
- Statistical Physics of Evolutionary Trajectories on Fitness Landscapes (*M Manhart and A V Morozov*)
- Some Applications of First-Passage Ideas to Finance (*R Chichportiche and J-P Bouchaud*)
- First-Passage and Extremes in Socio-Economic Systems (*J Masoliver and J Perelló*)
- Transport and the First-Passage Time Problem with Application to Cold Atoms in Optical Traps (*E Barkai and D A Kessler*)
- The Excursion Set Theory in Cosmology (*M Maggiore and A Riotto*)
- Self-Organized Escape Processes of Linear Chains in Nonlinear Potentials (*T Gross, D Hennig and L Schimansky-Geier*)
- Efficient Monte Carlo Methods for Simulating Diffusion-Reaction Processes in Complex Systems (*D S Grebenkov*)

**Readership:** Researchers in stochastic processes, statistical physics, and mathematical physics.

### Key Features:

- Comprehensive update of the classical book by Sidney Redner
- Applications to wide-ranging and active fields of research
- Well-known authors in the field

 [\*\*Download\*\* First-Passage Phenomena and Their Applications ...pdf](#)

 [\*\*Read Online\*\* First-Passage Phenomena and Their Applications ...pdf](#)

## **Download and Read Free Online First-Passage Phenomena and Their Applications Ralf Et Al Metzler**

---

### **From reader reviews:**

#### **John Beaulieu:**

Information is provisions for folks to get better life, information nowadays can get by anyone at everywhere. The information can be a understanding or any news even restricted. What people must be consider any time those information which is in the former life are difficult to be find than now's taking seriously which one is acceptable to believe or which one the resource are convinced. If you find the unstable resource then you get it as your main information we will see huge disadvantage for you. All of those possibilities will not happen throughout you if you take First-Passage Phenomena and Their Applications as your daily resource information.

#### **Patricia Glover:**

This book untitled First-Passage Phenomena and Their Applications to be one of several books that will best seller in this year, this is because when you read this reserve you can get a lot of benefit on it. You will easily to buy this kind of book in the book store or you can order it by way of online. The publisher on this book sells the e-book too. It makes you easier to read this book, since you can read this book in your Smart phone. So there is no reason to your account to past this guide from your list.

#### **Aurelio Ashley:**

It is possible to spend your free time to learn this book this reserve. This First-Passage Phenomena and Their Applications is simple to bring you can read it in the area, in the beach, train in addition to soon. If you did not have got much space to bring typically the printed book, you can buy often the e-book. It is make you better to read it. You can save often the book in your smart phone. So there are a lot of benefits that you will get when one buys this book.

#### **Nichelle Shive:**

Is it an individual who having spare time subsequently spend it whole day by simply watching television programs or just lying down on the bed? Do you need something totally new? This First-Passage Phenomena and Their Applications can be the response, oh how comes? A book you know. You are thus out of date, spending your extra time by reading in this new era is common not a nerd activity. So what these guides have than the others?

## **Download and Read Online First-Passage Phenomena and Their Applications Ralf Et Al Metzler #9ARDO3NJYLT**

## **Read First-Passage Phenomena and Their Applications by Ralf Et Al Metzler for online ebook**

First-Passage Phenomena and Their Applications by Ralf Et Al Metzler 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 First-Passage Phenomena and Their Applications by Ralf Et Al Metzler books to read online.

### **Online First-Passage Phenomena and Their Applications by Ralf Et Al Metzler ebook PDF download**

**First-Passage Phenomena and Their Applications by Ralf Et Al Metzler Doc**

**First-Passage Phenomena and Their Applications by Ralf Et Al Metzler Mobipocket**

**First-Passage Phenomena and Their Applications by Ralf Et Al Metzler EPub**