



Self-Organised Criticality: Theory, Models and Characterisation

By Gunnar Pruessner

[Download now](#)

[Read Online](#) 

Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner

Giving a detailed overview of the subject, this book takes in the results and methods that have arisen since the term self-organised criticality was coined twenty years ago. Providing an overview of numerical and analytical methods, from their theoretical foundation to the actual application and implementation, the book is an easy access point to important results and sophisticated methods. Starting with the famous Bak-Tang-Wiesenfeld sandpile, ten key models are carefully defined, together with their results and applications. Comprehensive tables of numerical results are collected in one volume for the first time, making the information readily accessible to readers. Written for graduate students and practicing researchers in a range of disciplines, from physics and mathematics to biology, sociology, finance, medicine and engineering, the book gives a practical, hands-on approach throughout. Methods and results are applied in ways that will relate to the reader's own research.

 [Download Self-Organised Criticality: Theory, Models and Cha ...pdf](#)

 [Read Online Self-Organised Criticality: Theory, Models and C ...pdf](#)

Self-Organised Criticality: Theory, Models and Characterisation

By Gunnar Pruessner

Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner

Giving a detailed overview of the subject, this book takes in the results and methods that have arisen since the term self-organised criticality was coined twenty years ago. Providing an overview of numerical and analytical methods, from their theoretical foundation to the actual application and implementation, the book is an easy access point to important results and sophisticated methods. Starting with the famous Bak-Tang-Wiesenfeld sandpile, ten key models are carefully defined, together with their results and applications. Comprehensive tables of numerical results are collected in one volume for the first time, making the information readily accessible to readers. Written for graduate students and practicing researchers in a range of disciplines, from physics and mathematics to biology, sociology, finance, medicine and engineering, the book gives a practical, hands-on approach throughout. Methods and results are applied in ways that will relate to the reader's own research.

Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner Bibliography

- Sales Rank: #2856248 in Books
- Brand: Brand: Cambridge University Press
- Published on: 2012-10-15
- Original language: English
- Number of items: 1
- Dimensions: 9.69" h x .98" w x 7.44" l, 2.80 pounds
- Binding: Hardcover
- 516 pages



[Download Self-Organised Criticality: Theory, Models and Cha ...pdf](#)



[Read Online Self-Organised Criticality: Theory, Models and C ...pdf](#)

Download and Read Free Online Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner

Editorial Review

Review

"... a modern, careful and authoritative text on Self-Organised Criticality (SOC) ... an excellent reference book on what SOC is and is not with connections to theory (analytical and simulations), experiments, and applications. The foreword by H. J. Jensen nicely describes the controversy surrounding SOC and its history."

Donald T. Jacobs, American Journal of Physics

About the Author

Gunnar Pruessner is a Lecturer in Mathematical Physics in the Department of Mathematics at Imperial College London. His research ranges from complexity, through field theoretic methods and applications, to synchronisation and the application of statistical mechanics in the medical sciences.

Users Review

From reader reviews:

Susan Roundy:

Hey guys, do you desire to find a new book to study? May be the book with the name Self-Organised Criticality: Theory, Models and Characterisation suitable to you? The book was written by famous writer in this era. The actual book untitled Self-Organised Criticality: Theory, Models and Characterisation is the main of several books which everyone read now. This book was inspired a lot of people in the world. When you read this e-book you will enter the new shape that you ever know previous to. The author explained their concept in the simple way, thus all of people can easily comprehend the core of this book. This book will give you a lot of information about this world now. To help you to see the represented of the world with this book.

Brian Roberts:

A lot of people always spent all their free time to vacation as well as go to the outside with their loved ones or their friend. Were you aware? Many a lot of people spent many people free time just watching TV, or even playing video games all day long. If you would like to try to find a new activity this is look different you can read a book. It is really fun in your case. If you enjoy the book that you simply read you can spend the entire day to reading a e-book. The book Self-Organised Criticality: Theory, Models and Characterisation it is rather good to read. There are a lot of those who recommended this book. We were holding enjoying reading this book. In the event you did not have enough space to deliver this book you can buy the actual e-book. You can more effortlessly to read this book out of your smart phone. The price is not to fund but this book offers high quality.

Jeff Farley:

As we know that book is vital thing to add our know-how for everything. By a reserve we can know everything we want. A book is a list of written, printed, illustrated or blank sheet. Every year seemed to be exactly added. This reserve Self-Organised Criticality: Theory, Models and Characterisation was filled concerning science. Spend your time to add your knowledge about your technology competence. Some people has distinct feel when they reading the book. If you know how big benefit from a book, you can feel enjoy to read a guide. In the modern era like now, many ways to get book that you just wanted.

Henry Perry:

A number of people said that they feel uninterested when they reading a reserve. They are directly felt the item when they get a half parts of the book. You can choose the actual book Self-Organised Criticality: Theory, Models and Characterisation to make your reading is interesting. Your current skill of reading ability is developing when you just like reading. Try to choose simple book to make you enjoy to learn it and mingle the opinion about book and studying especially. It is to be 1st opinion for you to like to open a book and read it. Beside that the guide Self-Organised Criticality: Theory, Models and Characterisation can to be your brand new friend when you're sense alone and confuse in what must you're doing of this time.

**Download and Read Online Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner
#L801VR4O2XP**

Read Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner for online ebook

Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner 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 Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner books to read online.

Online Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner ebook PDF download

Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner Doc

Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner MobiPocket

Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner EPub

L801VR4O2XP: Self-Organised Criticality: Theory, Models and Characterisation By Gunnar Pruessner