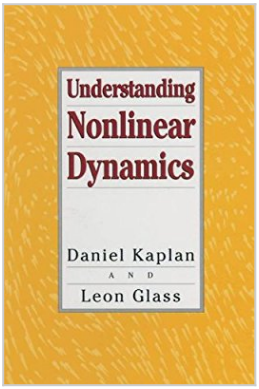

Understanding Nonlinear Dynamics (Texts in Applied Mathematics)

By Daniel Kaplan, Leon Glass

Understanding Nonlinear Dynamics (Texts in Applied Mathematics) By Daniel Kaplan, Leon Glass

Mathematics is playing an ever more important role in the physical and biological sciences, provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics. This renewal of interest, both in research and teaching, has led to the establishment of the series: Texts in Applied Mathematics (TAM). The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques, such as numerical and symbolic computer systems, dynamical systems, and chaos, mix with and reinforce the traditional methods of applied mathematics. Thus, the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses. TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses, and will complement the Applied Mathematical Sciences (AMS) series, which will focus on advanced textbooks and research level monographs. About the Authors Daniel Kaplan specializes in the analysis of data using techniques motivated by nonlinear dynamics. His primary interest is in the interpretation of irregular physiological rhythms, but the methods he has developed have been used in geo physics, economics, marine ecology, and other fields. He joined McGill in 1991, after receiving his Ph.D from Harvard University and working at MIT. His un dergraduate studies were completed at Swarthmore College. He has worked with several instrumentation companies to develop novel types of medical monitors.

Understanding Nonlinear Dynamics (Texts in Applied Mathematics)

By Daniel Kaplan, Leon Glass

Understanding Nonlinear Dynamics (Texts in Applied Mathematics) By Daniel Kaplan, Leon Glass

Mathematics is playing an ever more important role in the physical and biological sciences, provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics. This renewal of interest, both in research and teaching, has led to the establishment of the series: Texts in Applied Mathematics (TAM). The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques, such as numerical and symbolic computer systems, dynamical systems, and chaos, mix with and reinforce the traditional methods of applied mathematics. Thus, the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses. TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses, and will complement the Applied Mathematical Sciences (AMS) series, which will focus on advanced textbooks and research level monographs. About the Authors Daniel Kaplan specializes in the analysis of data using techniques motivated by nonlinear dynamics. His primary interest is in the interpretation of irregular physiological rhythms, but the methods he has developed have been used in geo physics, economics, marine ecology, and other fields. He joined McGill in 1991, after receiving his Ph.D from Harvard University and working at MIT. His un dergraduate studies were completed at Swarthmore College. He has worked with several instrumentation companies to develop novel types of medical monitors.

Understanding Nonlinear Dynamics (Texts in Applied Mathematics) By Daniel Kaplan, Leon Glass Bibliography

- Sales Rank: #3071872 in Books
- Published on: 1995-04-13
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.00" w x 6.14" l, 1.75 pounds
- Binding: Hardcover
- 420 pages

Editorial Review

Review
??Not only are many of the most recent topics included and simply explained, but the reader is also warned against difficulties in the practical implementation of the proposed methods of analysis and against common misinterpretations of some theoretical concepts. Because of its completeness and plain, but mathematically correct, style, this book is also an ideal starting point for researchers from various disciplines who are not familiar with mathematical concepts usually learned in the first two years of university study.??
??MATHEMATICAL REVIEWS ??I recommend this book strongly both to those who need to teach these topics and to those who want to learn about them, whether or not they are in the biosciences. In fact, I would strongly recommend this book to paleontologists, paleobiologists, paleoecologists, and geologists who are (finally) becoming interested in nonlinear dynamics, but are still afraid to ask.????AMERICAN SCIENTIST ??[The authors] have written a readily accessible introduction to nonlinear dynamics??the book presents the main concepts and applications of nonlinear dynamics at an elementary level??Interspersed in the text are delightful short essays of a page or two each??Courses on nonlinear dynamics rarely present these topics at the level used in the book??It is written in a ??user friendly?? colloquial style and is a delight to read??no reader is likely to encounter a more accessible elementary introduction to nonlinear dynamics.????PHYSICS TODAY

ANot only are many of the most recent topics included and simply explained, but the reader is also warned against difficulties in the practical implementation of the proposed methods of analysis and against common misinterpretations of some theoretical concepts. Because of its completeness and plain, but mathematically correct, style, this book is also an ideal starting point for researchers from various disciplines who are not familiar with mathematical concepts usually learned in the first two years of university study.A AMATHEMATICAL REVIEWS AI recommend this book strongly both to those who need to teach these topics and to those who want to learn about them, whether or not they are in the biosciences. In fact, I would strongly recommend this book to paleontologists, paleobiologists, paleoecologists, and geologists who are (finally) becoming interested in nonlinear dynamics, but are still afraid to ask.AAAMERICAN SCIENTIST A[The authors] have written a readily accessible introduction to nonlinear dynamicsAthe book presents the main concepts and applications of nonlinear dynamics at an elementary levelAInterspersed in the text are delightful short essays of a page or two eachACourses on nonlinear dynamics rarely present these topics at the level used in the bookAIt is written in a Auser friendlyA colloquial style and is a delight to readAno reader is likely to encounter a more accessible elementary introduction to nonlinear dynamics.AAPHYSICS TODAY

Users Review

From reader reviews:

Lucia Morrone:

Here thing why this particular Understanding Nonlinear Dynamics (Texts in Applied Mathematics) are different and trusted to be yours. First of all studying a book is good nonetheless it depends in the content than it which is the content is as scrumptious as food or not. Understanding Nonlinear Dynamics (Texts in Applied Mathematics) giving you information deeper including different ways, you can find any guide out there but there is no guide that similar with Understanding Nonlinear Dynamics (Texts in Applied

Mathematics). It gives you thrill studying journey, its open up your eyes about the thing this happened in the world which is maybe can be happened around you. It is possible to bring everywhere like in area, café, or even in your means home by train. In case you are having difficulties in bringing the branded book maybe the form of Understanding Nonlinear Dynamics (Texts in Applied Mathematics) in e-book can be your alternative.

Gene Baker:

Do you one of people who can't read pleasant if the sentence chained from the straightway, hold on guys this kind of aren't like that. This Understanding Nonlinear Dynamics (Texts in Applied Mathematics) book is readable by you who hate the straight word style. You will find the data here are arrange for enjoyable looking at experience without leaving possibly decrease the knowledge that want to supply to you. The writer involving Understanding Nonlinear Dynamics (Texts in Applied Mathematics) content conveys the idea easily to understand by most people. The printed and e-book are not different in the articles but it just different by means of it. So , do you still thinking Understanding Nonlinear Dynamics (Texts in Applied Mathematics) is not loveable to be your top listing reading book?

Joan Freeman:

This book untitled Understanding Nonlinear Dynamics (Texts in Applied Mathematics) to be one of several books which best seller in this year, that's because when you read this e-book you can get a lot of benefit in it. You will easily to buy that book in the book retailer or you can order it by using online. The publisher in this book sells the e-book too. It makes you more easily to read this book, as you can read this book in your Mobile phone. So there is no reason for you to past this publication from your list.

Paul Evans:

As a pupil exactly feel bored for you to reading. If their teacher questioned them to go to the library as well as to make summary for some publication, they are complained. Just little students that has reading's spirit or real their hobby. They just do what the professor want, like asked to the library. They go to there but nothing reading seriously. Any students feel that examining is not important, boring and also can't see colorful pictures on there. Yeah, it is to become complicated. Book is very important to suit your needs. As we know that on this age, many ways to get whatever we wish. Likewise word says, many ways to reach Chinese's country. So , this Understanding Nonlinear Dynamics (Texts in Applied Mathematics) can make you feel more interested to read.

Read Understanding Nonlinear Dynamics (Texts in Applied Mathematics) By Daniel Kaplan, Leon Glass for online ebook

Understanding Nonlinear Dynamics (Texts in Applied Mathematics) By Daniel Kaplan, Leon Glass 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 Understanding Nonlinear Dynamics (Texts in Applied Mathematics) By Daniel Kaplan, Leon Glass books to read online.

Online Understanding Nonlinear Dynamics (Texts in Applied Mathematics) By Daniel Kaplan, Leon Glass ebook PDF download

Understanding Nonlinear Dynamics (Texts in Applied Mathematics) By Daniel Kaplan, Leon Glass Doc

Understanding Nonlinear Dynamics (Texts in Applied Mathematics) By Daniel Kaplan, Leon Glass Mobipocket

Understanding Nonlinear Dynamics (Texts in Applied Mathematics) By Daniel Kaplan, Leon Glass EPub

PI7BLFO2YTV: Understanding Nonlinear Dynamics (Texts in Applied Mathematics) By Daniel Kaplan, Leon Glass