



# **Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity)**

*Valentin Afraimovich, Edgardo Ugalde, Jesus Urias*

[Download now](#)

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

# Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity)

*Valentin Afraimovich, Edgardo Ugalde, Jesus Urias*

## **Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity)** Valentin Afraimovich, Edgardo Ugalde, Jesus Urias

This book is devoted to an important branch of the dynamical systems theory : the study of the fine (fractal) structure of Poincare recurrences -instants of time when the system almost repeats its initial state. The authors were able to write an entirely self-contained text including many insights and examples, as well as providing complete details of proofs. The only prerequisites are a basic knowledge of analysis and topology. Thus this book can serve as a graduate text or self-study guide for courses in applied mathematics or nonlinear dynamics (in the natural sciences). Moreover, the book can be used by specialists in applied nonlinear dynamics following the way in the book. The authors applied the mathematical theory developed in the book to two important problems: distribution of Poincare recurrences for nonpurely chaotic Hamiltonian systems and indication of synchronization regimes in coupled chaotic individual systems.

\* Portions of the book were published in an article that won the title "month's new hot paper in the field of Mathematics" in May 2004

\* Rigorous mathematical theory is combined with important physical applications

\* Presents rules for immediate action to study mathematical models of real systems

\* Contains standard theorems of dynamical systems theory

 [Download Fractal Dimensions for Poincare Recurrences, Volum ...pdf](#)

 [Read Online Fractal Dimensions for Poincare Recurrences, Vol ...pdf](#)

**Download and Read Free Online Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) Valentin Afraimovich, Edgardo Ugalde, Jesus Urias**

---

**From reader reviews:**

**Kim Scott:**

Book will be written, printed, or descriptive for everything. You can recognize everything you want by a book. Book has a different type. As it is known to us that book is important issue to bring us around the world. Adjacent to that you can your reading skill was fluently. A guide Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) will make you to be smarter. You can feel a lot more confidence if you can know about everything. But some of you think in which open or reading any book make you bored. It is not necessarily make you fun. Why they could be thought like that? Have you in search of best book or acceptable book with you?

**Nicole Marcil:**

The actual book Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) has a lot details on it. So when you make sure to read this book you can get a lot of advantage. The book was written by the very famous author. Tom makes some research ahead of write this book. This kind of book very easy to read you can obtain the point easily after looking over this book.

**Tyrone Knudson:**

Are you kind of active person, only have 10 as well as 15 minute in your time to upgrading your mind expertise or thinking skill possibly analytical thinking? Then you are receiving problem with the book when compared with can satisfy your short time to read it because this all time you only find reserve that need more time to be read. Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) can be your answer mainly because it can be read by you actually who have those short time problems.

**Glenn Wallin:**

You can spend your free time you just read this book this book. This Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) is simple to bring you can read it in the playground, in the beach, train in addition to soon. If you did not have much space to bring the printed book, you can buy the e-book. It is make you quicker to read it. You can save the book in your smart phone. And so there are a lot of benefits that you will get when one buys this book.

**Download and Read Online Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) Valentin Afraimovich, Edgardo Ugalde, Jesus Urias #R85IAKSH79B**

## **Read Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) by Valentin Afraimovich, Edgardo Ugalde, Jesus Urias for online ebook**

Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) by Valentin Afraimovich, Edgardo Ugalde, Jesus Urias 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 Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) by Valentin Afraimovich, Edgardo Ugalde, Jesus Urias books to read online.

### **Online Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) by Valentin Afraimovich, Edgardo Ugalde, Jesus Urias ebook PDF download**

**Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) by Valentin Afraimovich, Edgardo Ugalde, Jesus Urias Doc**

**Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) by Valentin Afraimovich, Edgardo Ugalde, Jesus Urias Mobipocket**

**Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) by Valentin Afraimovich, Edgardo Ugalde, Jesus Urias EPub**