



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

Valentin Afraimovich, Edgardo Ugalde, Jesus Urias

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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

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Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) can be one of your beginning books that are good idea. Many of us recommend that straight away because this guide has good vocabulary that may increase your knowledge in language, easy to understand, bit entertaining but delivering the information. The article writer giving his/her effort to put every word into delight arrangement in writing Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) nevertheless doesn't forget the main point, giving the reader the hottest and also based confirm resource details that maybe you can be among it. This great information can easily drawn you into new stage of crucial thinking.

Deborah Lacey:

The book untitled Fractal Dimensions for Poincare Recurrences, Volume 2 (Monograph Series on Nonlinear Science and Complexity) contain a lot of information on it. The writer explains her idea with easy way. The language is very clear to see all the people, so do not worry, you can easy to read this. The book was published by famous author. The author will take you in the new era of literary works. You can read this book because you can read on your smart phone, or model, so you can read the book with anywhere and anytime. In a situation you wish to purchase the e-book, you can open up their official web-site and also order it. Have a nice read.

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