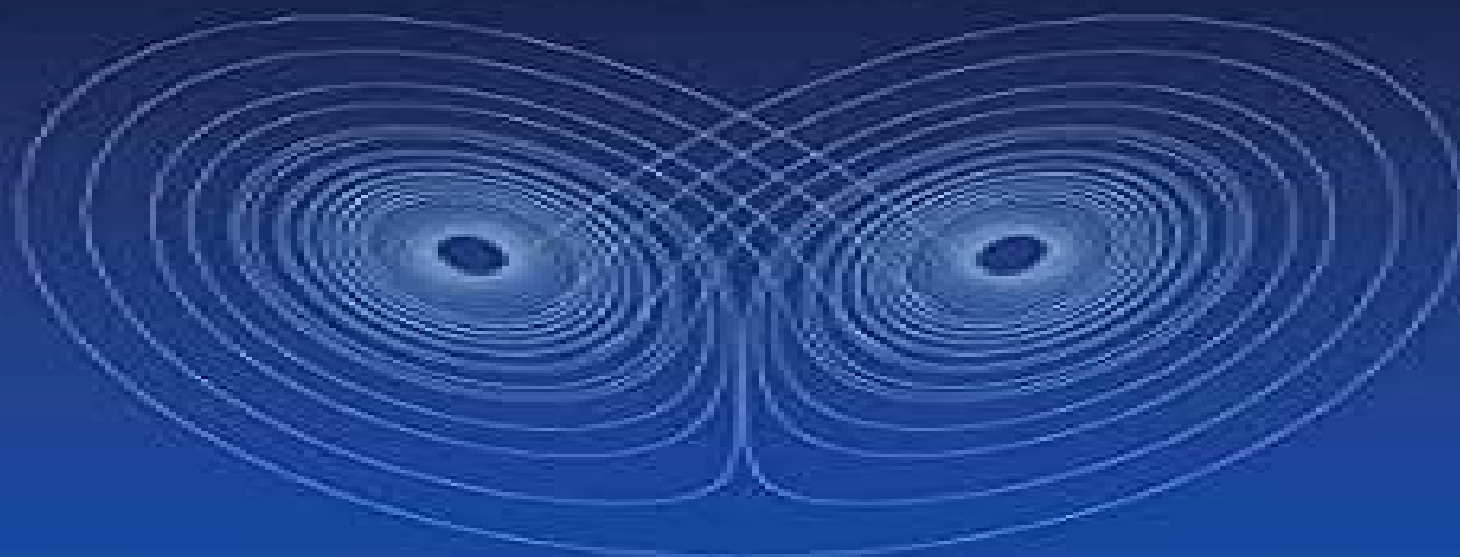


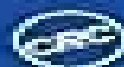
DYNAMICAL SYSTEMS

Stability, Symbolic Dynamics, and Chaos

Second Edition



Clark Robinson



CRC Press
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Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics

Tobias Wichtrey



Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics:

Dynamical Systems Clark Robinson,1998-11-17 Several distinctive aspects make Dynamical Systems unique including treating the subject from a mathematical perspective with the proofs of most of the results included providing a careful review of background materials introducing ideas through examples and at a level accessible to a beginning graduate student

li Modern Dynamical Systems and Applications Michael Brin,Boris Hasselblatt,Ya. B. Pesin,2004-08-16 This volume presents a wide cross section of current research in the theory of dynamical systems and contains articles by leading researchers including several Fields medalists in a variety of specialties These are surveys usually with new results included as well as research papers that are included because of their potentially high impact Major areas covered include hyperbolic dynamics elliptic dynamics mechanics geometry ergodic theory group actions rigidity applications The target audience includes dynamicists who will find new results in their own specialty as well as surveys in others and mathematicians from other disciplines wholook for a sample of current developments in ergodic theory and dynamical systems

Handbook of Dynamical Systems B. Hasselblatt,A. Katok,2002-08-20 Volumes 1A and 1B These volumes give a comprehensive survey of dynamics written by specialists in the various subfields of dynamical systems The presentation attains coherence through a major introductory survey by the editors that organizes the entire subject and by ample cross references between individual surveys The volumes are a valuable resource for dynamicists seeking to acquaint themselves with other specialties in the field and to mathematicians active in other branches of mathematics who wish to learn about contemporary ideas and results dynamics Assuming only general mathematical knowledge the surveys lead the reader towards the current state of research in dynamics Volume 1B will appear 2005

Ergodic Theory, Hyperbolic Dynamics and Dimension Theory Luís Barreira,2012-04-28 Over the last two decades the dimension theory of dynamical systems has progressively developed into an independent and extremely active field of research The main aim of this volume is to offer a unified self contained introduction to the interplay of these three main areas of research ergodic theory hyperbolic dynamics and dimension theory It starts with the basic notions of the first two topics and ends with a sufficiently high level introduction to the third Furthermore it includes an introduction to the thermodynamic formalism which is an important tool in dimension theory The volume is primarily intended for graduate students interested in dynamical systems as well as researchers in other areas who wish to learn about ergodic theory thermodynamic formalism or dimension theory of hyperbolic dynamics at an intermediate level in a sufficiently detailed manner In particular it can be used as a basis for graduate courses on any of these three subjects The text can also be used for self study it is self contained and with the exception of some well known basic facts from other areas all statements include detailed proofs

Extremes and Recurrence in Dynamical Systems Valerio Lucarini,Davide Faranda,Ana Cristina Gomes Monteiro Moreira de Freitas,Jorge Miguel Milhazes de Freitas,Mark Holland,Tobias Kuna,Matthew Nicol,Mike Todd,Sandro Vaienti,2016-03-28 Written by a team of international experts

Extremes and Recurrence in Dynamical Systems presents a unique point of view on the mathematical theory of extremes and on its applications in the natural and social sciences. Featuring an interdisciplinary approach to new concepts in pure and applied mathematical research, the book skillfully combines the areas of statistical mechanics, probability theory, measure theory, dynamical systems, statistical inference, geophysics, and software application. Emphasizing the statistical mechanical point of view, the book introduces robust theoretical embedding for the application of extreme value theory in dynamical systems. Extremes and Recurrence in Dynamical Systems also features a careful examination of how a dynamical system can serve as a generator of stochastic processes, discussions on the applications of statistical inference in the theoretical and heuristic use of extremes, several examples of analysis of extremes in a physical and geophysical context, a final summary of the main results presented along with a guide to future research projects, an appendix with software in Matlab programming language to help readers to develop further understanding of the presented concepts. Extremes and Recurrence in Dynamical Systems is ideal for academics and practitioners in pure and applied mathematics, probability theory, statistics, chaos, theoretical and applied dynamical systems, statistical mechanics, geophysical fluid dynamics, geosciences, and complexity science.

VALERIO LUCARINI PhD is Professor of Theoretical Meteorology at the University of Hamburg, Germany, and Professor of Statistical Mechanics at the University of Reading, UK. DAVIDE FARANDA PhD is Researcher at the Laboratoire des sciences du climat et de l'environnement IPSL, CEA Saclay, Université Paris Saclay, Gif sur Yvette, France. ANA CRISTINA GOMES MONTEIRO MOREIRA DE FREITAS PhD is Assistant Professor in the Faculty of Economics at the University of Porto, Portugal. JORGE MIGUEL MILHAZES DE FREITAS PhD is Assistant Professor in the Department of Mathematics of the Faculty of Sciences at the University of Porto, Portugal. MARK HOLLAND PhD is Senior Lecturer in Applied Mathematics in the College of Engineering, Mathematics and Physical Sciences at the University of Exeter, UK. TOBIAS KUNA PhD is Associate Professor in the Department of Mathematics and Statistics at the University of Reading, UK. MATTHEW NICOL PhD is Professor of Mathematics at the University of Houston, USA. MIKE TODD PhD is Lecturer in the School of Mathematics and Statistics at the University of St Andrews, Scotland. SANDRO VAIENTI PhD is Professor of Mathematics at the University of Toulon and Researcher at the Centre de Physique Théorique, France.

Dynamics, Games and Science II Mauricio Matos Peixoto, Alberto Adrego Pinto, David A. Rand, 2011-05-27. Dynamics, Games and Science I and II are a selection of surveys and research articles written by leading researchers in mathematics. The majority of the contributions are on dynamical systems and game theory, focusing either on fundamental and theoretical developments or on applications to modeling in biology, economics, engineering, finances, and psychology. The papers are based on talks given at the International Conference DYNA 2008 held in honor of Mauricio Peixoto and David Rand at the University of Braga, Portugal, on September 8-12, 2008. The aim of these volumes is to present cutting edge research in these areas to encourage graduate students and researchers in mathematics and other fields to develop them further.

The Elements of Advanced Mathematics, Second Edition Steven G.

Krantz,2002-01-18 The gap between the rote calculational learning mode of calculus and ordinary differential equations and the more theoretical learning mode of analysis and abstract algebra grows ever wider and more distinct and students need for a well guided transition grows with it For more than six years the bestselling first edition of this classic text has helped them cross the mathematical bridge to more advanced studies in topics such as topology abstract algebra and real analysis Carefully revised expanded and brought thoroughly up to date the Elements of Advanced Mathematics Second Edition now does the job even better building the background tools and skills students need to meet the challenges of mathematical rigor axiomatics and proofs New in the Second Edition Expanded explanations of propositional predicate and first order logic especially valuable in theoretical computer science A chapter that explores the deeper properties of the real numbers including topological issues and the Cantor set Fuller treatment of proof techniques with expanded discussions on induction counting arguments enumeration and dissection Streamlined treatment of non Euclidean geometry Discussions on partial orderings total ordering and well orderings that fit naturally into the context of relations More thorough treatment of the Axiom of Choice and its equivalents Additional material on Russell s paradox and related ideas Expanded treatment of group theory that helps students grasp the axiomatic method A wealth of added exercises **Dynamics, Games and Science I**

Mauricio Matos Peixoto,Alberto Adrego Pinto,David A. Rand,2011-03-29 Dynamics Games and Science I and II are a selection of surveys and research articles written by leading researchers in mathematics The majority of the contributions are on dynamical systems and game theory focusing either on fundamental and theoretical developments or on applications to modeling in biology economics engineering finances and psychology The papers are based on talks given at the International Conference DYNA 2008 held in honor of Mauricio Peixoto and David Rand at the University of Braga Portugal on September 8 12 2008 The aim of these volumes is to present cutting edge research in these areas to encourage graduate students and researchers in mathematics and other fields to develop them further Shadowing and Hyperbolicity Sergei Yu Pilyugin,Kazuhiro Sakai,2017-08-31 Focusing on the theory of shadowing of approximate trajectories pseudotrajectories of dynamical systems this book surveys recent progress in establishing relations between shadowing and such basic notions from the classical theory of structural stability as hyperbolicity and transversality Special attention is given to the study of quantitative shadowing properties such as Lipschitz shadowing it is shown that this property is equivalent to structural stability both for diffeomorphisms and smooth flows and to the passage to robust shadowing which is also equivalent to structural stability in the case of diffeomorphisms while the situation becomes more complicated in the case of flows Relations between the shadowing property of diffeomorphisms on their chain transitive sets and the hyperbolicity of such sets are also described The book will allow young researchers in the field of dynamical systems to gain a better understanding of new ideas in the global qualitative theory It will also be of interest to specialists in dynamical systems and their applications *Dynamics Beyond Uniform Hyperbolicity* Christian Bonatti,Lorenzo J. Díaz,Marcelo Viana,2006-03-30

What is Dynamics about In broad terms the goal of Dynamics is to describe the long term evolution of systems for which an infinitesimal evolution rule is known Examples and applications arise from all branches of science and technology like physics chemistry economics ecology communications biology computer science or meteorology to mention just a few These systems have in common the fact that each possible state may be described by a finite or infinite number of observable quantities like position velocity temperature concentration population density and the like Thus in the space of states phase space is a subset M of an Euclidean space \mathbb{R}^n Usually there are some constraints between these quantities for instance for ideal gases pressure times volume must be proportional to temperature Then the space M is often a manifold an n dimensional surface for some n

Rigorous Numerics in Dynamics Jan Bouwe van den Berg, Jean-Philippe Lessard, 2018-07-12 This volume is based on lectures delivered at the 2016 AMS Short Course Rigorous Numerics in Dynamics held January 4-5 2016 in Seattle Washington Nonlinear dynamics shapes the world around us from the harmonious movements of celestial bodies via the swirling motions in fluid flows to the complicated biochemistry in the living cell Mathematically these phenomena are modeled by nonlinear dynamical systems in the form of ODEs PDEs and delay equations The presence of nonlinearities complicates the analysis and the difficulties are even greater for PDEs and delay equations which are naturally defined on infinite dimensional function spaces With the availability of powerful computers and sophisticated software numerical simulations have quickly become the primary tool to study the models However while the pace of progress increases one may ask just how reliable are our computations Even for finite dimensional ODEs this question naturally arises if the system under study is chaotic as small differences in initial conditions such as those due to rounding errors in numerical computations yield wildly diverging outcomes These issues have motivated the development of the field of rigorous numerics in dynamics which draws inspiration from ideas in scientific computing numerical analysis and approximation theory The articles included in this volume present novel techniques for the rigorous study of the dynamics of maps via the Conley index theory periodic orbits of delay differential equations via continuation methods invariant manifolds and connecting orbits the dynamics of models with unknown nonlinearities and bifurcations diagrams

Harmonic Limits of Dynamical and Control Systems Tobias Wichtrey, 2011 In this thesis we will analyze an approach to describe the rotational behaviour of dynamical systems and control systems namely the concept of rotational factor maps The general idea is to find a complex valued map F on the state space that maps the dynamics onto a rotation around the origin in the complex plane We will call such a map a rotational factor map More formally these rotational factor maps are eigenfunctions of the Koopman operator This concept of rotational factor maps is closely connected to harmonic limits which are ergodic sums for discrete time systems or integrals for systems in continuous time It turns out that the existence of rotational factor maps is equivalent to the existence of non zero harmonic limits So we use harmonic limits to analyse the spectral properties of dynamical systems given by the iteration of a map by a semi flow or by a control system

Equations Of Phase-locked Loops: Dynamics On Circle, Torus And Cylinder

Jacek Kudrewicz, Stefan Wasowicz, 2007-08-23 Phase Locked Loops PLLs are electronic systems that can be used as a synchronized oscillator a driver or multiplier of frequency a modulator or demodulator and as an amplifier of phase modulated signals This book updates the methods used in the analysis of PLLs by drawing on the results obtained in the last 40 years Many are published for the first time in book form Nonlinear and deterministic mathematical models of continuous time and discrete time PLLs are considered and their basic properties are given in the form of theorems with rigorous proofs The book exhibits very beautiful dynamics and shows various physical phenomena observed in synchronized oscillators described by complete not averaged equations of PLLs Specially selected mathematical tools are used the theory of differential equations on a torus the phase plane portraits on a cylinder a perturbation theory Melnikov's theorem on heteroclinic trajectories integral manifolds iterations of one dimensional maps of a circle and two dimensional maps of a cylinder Using these tools the properties of PLLs in particular the regions of synchronization are described Emphasis is on bifurcations of various types of periodic and chaotic oscillations Strange attractors in the dynamics of PLLs are considered such as those discovered by Rossler Henon Lorenz May Chua and others

Advances in Ultrametric Analysis Khodr Shamseddine, 2013 This volume contains papers based on lectures given at the 12th International Conference on p-adic Functional Analysis which was held at the University of Manitoba on July 2-6 2012 Through a combination of new research articles and survey papers this book provides the reader with an overview of current developments and techniques in non-archimedean analysis as well as a broad knowledge of some of the sub-areas of this exciting and fast developing research area

Dynamical Systems by Example Luís Barreira, Claudia Valls, 2019-04-17 This book comprises an impressive collection of problems that cover a variety of carefully selected topics on the core of the theory of dynamical systems Aimed at the graduate upper undergraduate level the emphasis is on dynamical systems with discrete time In addition to the basic theory the topics include topological low dimensional hyperbolic and symbolic dynamics as well as basic ergodic theory As in other areas of mathematics one can gain the first working knowledge of a topic by solving selected problems It is rare to find large collections of problems in an advanced field of study much less to discover accompanying detailed solutions This text fills a gap and can be used as a strong companion to an analogous dynamical systems textbook such as the authors own Dynamical Systems Universitext Springer or another text designed for a one or two semester advanced undergraduate graduate course The book is also intended for independent study Problems often begin with specific cases and then move on to general results following a natural path of learning They are also well graded in terms of increasing the challenge to the reader Anyone who works through the theory and problems in Part I will have acquired the background and techniques needed to do advanced studies in this area Part II includes complete solutions to every problem given in Part I with each conveniently restated Beyond basic prerequisites from linear algebra differential and integral calculus and complex analysis and topology in each chapter the authors recall the notions and results without proofs that are necessary to treat the

challenges set for that chapter thus making the text self contained **Clifford Algebras in Analysis and Related Topics**

John Ryan, 2018-03-09 This new book contains the most up to date and focused description of the applications of Clifford algebras in analysis particularly classical harmonic analysis It is the first single volume devoted to applications of Clifford analysis to other aspects of analysis All chapters are written by world authorities in the area Of particular interest is the contribution of Professor Alan McIntosh He gives a detailed account of the links between Clifford algebras monogenic and harmonic functions and the correspondence between monogenic functions and holomorphic functions of several complex variables under Fourier transforms He describes the correspondence between algebras of singular integrals on Lipschitz surfaces and functional calculi of Dirac operators on these surfaces He also discusses links with boundary value problems over Lipschitz domains Other specific topics include Hardy spaces and compensated compactness in Euclidean space applications to acoustic scattering and Galerkin estimates scattering theory for orthogonal wavelets applications of the conformal group and Vahala matrices Neumann type problems for the Dirac operator plus much much more Clifford Algebras in Analysis and Related Topics also contains the most comprehensive section on open problems available The book presents the most detailed link between Clifford analysis and classical harmonic analysis It is a refreshing break from the many expensive and lengthy volumes currently found on the subject *Pseudodifferential Analysis on Symmetric Cones*

Andre Unterberger, Harald Upmeyer, 1995-12-13 Symmetric cones possibly disguised under non linear changes of coordinates are the building blocks of manifolds with edges corners or conical points of a very general nature Besides being a canonical open set of some Euclidean space a symmetric cone L has an intrinsic Riemannian structure of its own turning it into a symmetric space These two structures make it possible to define on L a pseudodifferential analysis the Fuchs calculus The considerable interest in pseudodifferential problems on manifolds with non smooth boundaries makes the precise analyses presented in this book both interesting and important Much of the material in this book has never been previously published The methods used throughout the text rely heavily on the use of tools from quantum mechanics such as representation theory and coherent states Classes of operators defined by their symbols are given intrinsic characterizations Harmonic analysis is discussed via the automorphism group of the complex tube over L The basic definitions governing the Fuchs calculus are provided and a thorough exposition of the fundamental facts concerning the geometry of symmetric cones is given The relationship with Jordan algebras is outlined and the general theory is illustrated by numerous examples The book offers the reader the technical tools for proving the main properties of the Fuchs calculus with an emphasis on using the non Euclidean Riemannian structure of the underlying cone The fundamental results of pseudodifferential analysis are presented The authors also develop the relationship to complex analysis and group representation This book benefits researchers interested in analysis on non smooth domains or anyone working in pseudodifferential analysis People interested in the geometry or harmonic analysis of symmetric cones will find in this valuable reference a new range of applications of complex analysis on

tube type symmetric domains and of the theory of Jordan algebras

A Primer on Wavelets and Their Scientific

Applications James S. Walker, 2019-07-17 The rapid growth of wavelet applications speech compression and analysis image compression and enhancement and removing noise from audio and images has created an explosion of activity in creating a theory of wavelet analysis and applying it to a wide variety of scientific and engineering problems It becomes important then that engineers and scientists have a working understanding of wavelets Until now however the study of wavelets has been beyond the mathematical grasp of many who need this understanding Most treatments of the subject involve ideas from functional analysis harmonic analysis and other difficult mathematical techniques Wavelets and their Scientific Applications offers an introduction to wavelet analysis without mathematical rigor requiring only algebra and some very basic calculus The author stresses applications and explains using elementary algebra how wavelet methods are typically applied in analyzing digital data Software is available for download through CRC's Website that will enable recording playing and modifying sound files and includes a facility for displaying printing and modifying IEEE gray field images Unlike other software packages for wavelet analysis the author developed this attractive easy to use software without the need for a C compiler or MATLAB Throughout the book the author provides numerous suggestions for computer experiments designed to challenge and enhance the reader's comprehension and provide practice in applying the concepts learned Wavelets and their Scientific Applications thus provides the perfect vehicle for understanding wavelets and their uses It provides a fast track learning opportunity for scientists and mathematicians unfamiliar with wavelet concepts and applications and it is ideal for anyone without an extensive mathematical background

Fast Fourier Transforms James S. Walker, 2017-11-22 This new

edition of an indispensable text provides a clear treatment of Fourier Series Fourier Transforms and FFTs The unique software included with the book and newly updated for this edition allows the reader to generate firsthand images of all aspects of Fourier analysis described in the text Topics covered include *Composition Operators on Spaces of Analytic Functions* Carl C. Cowen Jr., 2019-03-04 The study of composition operators lies at the interface of analytic function theory and operator theory Composition Operators on Spaces of Analytic Functions synthesizes the achievements of the past 25 years and brings into focus the broad outlines of the developing theory It provides a comprehensive introduction to the linear operators of composition with a fixed function acting on a space of analytic functions This new book both highlights the unifying ideas behind the major theorems and contrasts the differences between results for related spaces Nine chapters introduce the main analytic techniques needed Carleson measure and other integral estimates linear fractional models and kernel function techniques and demonstrate their application to problems of boundedness compactness spectra normality and so on of composition operators Intended as a graduate level textbook the prerequisites are minimal Numerous exercises illustrate and extend the theory For students and non students alike the exercises are an integral part of the book By including the theory for both one and several variables historical notes and a comprehensive bibliography the book leaves the

reader well grounded for future research on composition operators and related areas in operator or function theory

The book delves into Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics. Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
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 - Chapter 5: Conclusion
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Table of Contents Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics

1. Understanding the eBook Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
 - The Rise of Digital Reading Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
 - Advantages of eBooks Over Traditional Books
2. Identifying Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
 - Personalized Recommendations
 - Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics User Reviews and

Ratings

- Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics and Bestseller Lists

5. Accessing Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics Free and Paid eBooks

- Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics Public Domain eBooks
- Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics eBook Subscription Services
- Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics Budget-Friendly Options

6. Navigating Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics eBook Formats

- ePub, PDF, MOBI, and More
- Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics Compatibility with Devices
- Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
- Highlighting and Note-Taking Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
- Interactive Elements Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics

8. Staying Engaged with Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics

9. Balancing eBooks and Physical Books Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
 - Setting Reading Goals Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
 - Fact-Checking eBook Content of Dynamical Systems Stability Symbolic Dynamics And Chaos Studies In Advanced Mathematics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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