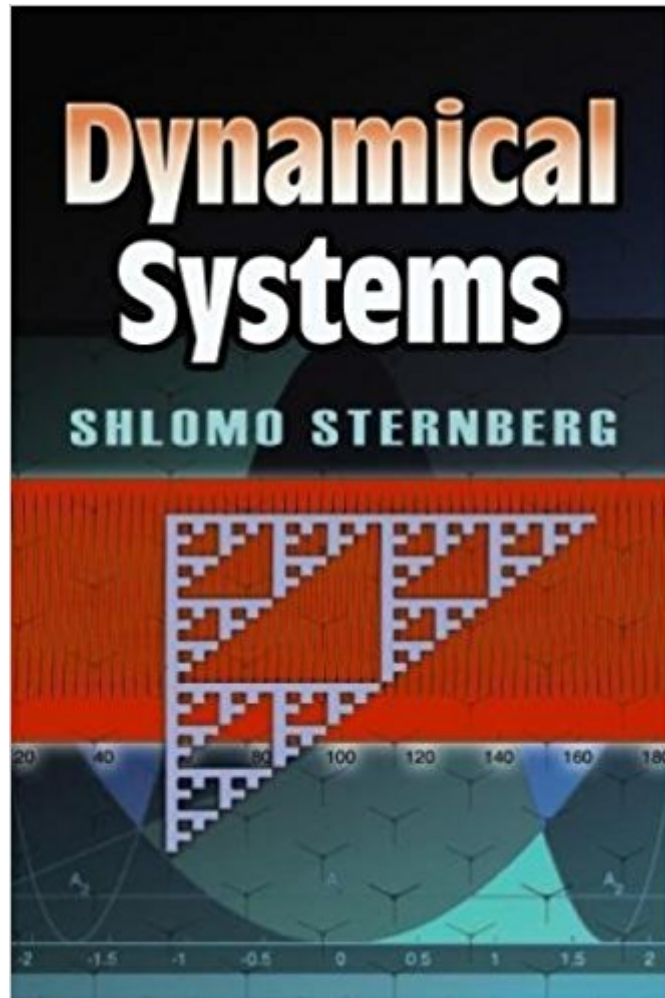


The book was found

Dynamical Systems (Dover Books On Mathematics)



Synopsis

Celebrated mathematician Shlomo Sternberg, a pioneer in the field of dynamical systems, created this modern one-semester introduction to the subject for his classes at Harvard University. Its wide-ranging treatment covers one-dimensional dynamics, differential equations, random walks, iterated function systems, symbolic dynamics, and Markov chains. Supplementary materials offer a variety of online components, including PowerPoint lecture slides for professors and MATLAB exercises. "Even though there are many dynamical systems books on the market, this book is bound to become a classic. The theory is explained with attractive stories illustrating the theory of dynamical systems, such as the Newton method, the Feigenbaum renormalization picture, fractal geometry, the Perron-Frobenius mechanism, and Google PageRank." — Oliver Knill, PhD, Preceptor of Mathematics, Harvard University.

Book Information

Series: Dover Books on Mathematics

Paperback: 272 pages

Publisher: Dover Publications; 2010 edition (July 21, 2010)

Language: English

ISBN-10: 0486477053

ISBN-13: 978-0486477053

Product Dimensions: 6.1 x 0.6 x 9.2 inches

Shipping Weight: 12 ounces (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 4 customer reviews

Best Sellers Rank: #441,598 in Books (See Top 100 in Books) #251 inÂ Books > Science & Math > Mathematics > Applied > Differential Equations #5326 inÂ Books > Textbooks > Science & Mathematics > Mathematics

Customer Reviews

The book is well organized by topics and IMO a very good second course after ordinary differential equations. The author has a pdf version for free here:[...]If you like a paper copy, then buy this Dover published. It is very inexpensive. The Dover copy is an slightly updated version of the online version.

It's very good.

I don't like it because the equations are tiny, the figures are small, and these elements don't change size with font size adjustments. I am attempting to read on Kindle for PC.

I read Steven H. Strogatz's *Nonlinear Dynamics And Chaos* about a decade ago, and found it interesting, entertaining, and just barely useful. Now, I wish I'd had this book to jump into immediately after finishing Strogatz. Sternberg's writing is perfect for a mathematically mature reader. As he says in the introduction, you need a firm grip on calculus and linear algebra. I'd say that a good understanding of undergraduate level differential equations would help as well. As I implied above, you might want to read and work through Strogatz's book first as well. If I was making a reading list to bring an undergraduate (or graduate student!) up to speed in this field, I might have them start with James Gleick's *Chaos* first, just to get a feel for the material, then Strogatz, then this excellent book by Sternberg.

[Download to continue reading...](#)

[Differential Equations, Dynamical Systems, and an Introduction to Chaos [DIFFERENTIAL EQUATIONS, DYNAMICAL SYSTEMS, AND AN INTRODUCTION TO CHAOS BY Hirsch, Morris W. (Author) Mar-26-2012] By Hirsch, Morris W. (Author) [2012] [Paperback] Fractal Geometry and Dynamical Systems in Pure and Applied Mathematics I: Fractals in Pure Mathematics (Contemporary Mathematics) Dynamical Systems (Dover Books on Mathematics) Differential Equations and Dynamical Systems (Texts in Applied Mathematics) Extremes and Recurrence in Dynamical Systems (Pure and Applied Mathematics: A Wiley Series of Texts, Monographs and Tracts) Differential Equations, Dynamical Systems, and an Introduction to Chaos, Second Edition (Pure and Applied Mathematics) Mathematical Theory of Nonequilibrium Steady States: On the Frontier of Probability and Dynamical Systems (Lecture Notes in Mathematics) Ordinary Differential Equations: From Calculus to Dynamical Systems (Maa Textbooks) Introduction to Differential Equations with Dynamical Systems A First Course In Chaotic Dynamical Systems: Theory And Experiment (Studies in Nonlinearity) Differential Equations, Dynamical Systems, and an Introduction to Chaos, Third Edition Dynamical Systems: An Introduction (Universitext) A First Course in Discrete Dynamical Systems (Universitext) Introduction to Dynamical Systems Chaos: An Introduction to Dynamical Systems (Textbooks in Mathematical Sciences) Lectures on Fractal Geometry and Dynamical Systems (Student Mathematical Library) Differential Equations, Dynamical Systems, and an Introduction to Chaos In the Wake of Chaos: Unpredictable Order in Dynamical Systems (Science and Its Conceptual Foundations series) Chaos in Dynamical Systems Dynamical Systems: A Differential Geometric Approach to Symmetry and Reduction

Contact Us

DMCA

Privacy

FAQ & Help