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good mathematical overview of the subject. I'm not a qualified mathematician but with patience, you can get a very good feel for the subject of non linear behaviour. Read more.

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Devaney. The study of  
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systems has exploded  
in the past 25 years,  
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mathematically the  
existence of chaotic  
solutions and gave a  
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Chaos theory is a branch of mathematics focusing on the study of chaos—states of dynamical systems whose apparently random states of disorder and irregularities are often governed by deterministic laws that are highly sensitive to

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initial conditions.

## **Chaos theory - Wikipedia**

He is the author of An Introduction to Chaotic Dynamical Systems, and Chaos, Fractals, and Dynamics: Computer Experiments in Modern Mathematics, which aims to explain the beauty of chaotic dynamics to high school students and teachers.



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faculty at the  
Mathematics Dept. of  
IIT Delhi. Her primary  
area of research is in  
Topological Dynamics.

## **Chaotic Dynamical System - Course**

This book gives a quick  
and elementary  
introduction to the field  
of chaotic dynamical  
systems that could be  
read by anyone with a  
background in calculus  
and linear algebra. The  
approach taken by the

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author is very intuitive, lots of diagrams are used to illustrate the major points, and there are many useful exercises throughout the book.

## **Amazon.com: Customer reviews: An Introduction to Chaotic ...**

In his 1989 book An Introduction to Chaotic Dynamical Systems, Devaney defined a system to be chaotic if

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it has sensitive dependence on initial conditions, it is topologically transitive (for any two open sets, some points from one set will eventually hit the other set), and its periodic orbits form a dense set.

## **Robert L. Devaney - Wikipedia**

This is an undergraduate textbook about chaotic dynamical systems.

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The only prerequisites are a background in calculus and an interest in mathematics. Topics covered include iteration, bifurcations, symbolic dynamics, Sharkovsky's theorem, chaos, the Schwarzian derivative, Newton's method, fractals, Julia sets, and the Mandelbrot set.

**Devaney Books - BU**

The study of nonlinear

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dynamical systems has exploded in the past 25 years, and Robert L. Devaney has made these advanced research developments accessible to undergraduate and graduate mathematics students as well as researchers in other disciplines with the introduction of this widely praised book. In this second edition of his best-selling text, Devaney includes new

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