Nonlinear Dynamics and Chaos

By J. M. T. Thompson, H. B. Stewart

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Nonlinear dynamics and chaos involves the study of apparent random happenings within a system or process. The subject has wide applications within mathematics, engineering, physics and other physical sciences. Since the bestselling first edition was published, there has been a lot of new research conducted in the area of nonlinear dynamics and chaos.
* Expands on the bestselling, highly regarded first edition

* A new chapter which will cover the new research in the area since first edition

* Glossary of terms and a bibliography have been added

* All figures and illustrations will be 'modernised'

* Comprehensive and systematic account of nonlinear dynamics and chaos, still a fast-growing area of applied mathematics

* Highly illustrated

* Excellent introductory text, can be used for an advanced undergraduate/graduate course text

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Editorial Review

Review
??much more extensive than before..? (The Mathematical Review, March 2004)

"The fully updated second edition provides a self-contained introduction to the theory and applications of nonlinear dynamics and chaos." (International Journal of Environmental Analytical Chemistry, Vol.84, No.14 – 15, 10 – 20 December 2004)

From the Back Cover
Covering one of the fastest growing areas of applied mathematics, Nonlinear Dynamics and Chaos: Second Edition, is a fully updated edition of this highly respected text. Covering a breadth of topics, ranging from the basic concepts to applications in the physical sciences, the book is highly illustrated and written in a clear and comprehensible style.
* Provides a self-contained introduction to the theory and applications of nonlinear dynamics and chaos.

* Introduces the concepts of instabilities, bifurcations, and catastrophes.

* Each idea is carefully explained and supported by examples.

* Features many applications to a wide variety of scientific fields.

* Includes an illustrated glossary of geometrical dynamics.

* Features a supplementary bibliography of further reading.

* Assumes minimal background knowledge.
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