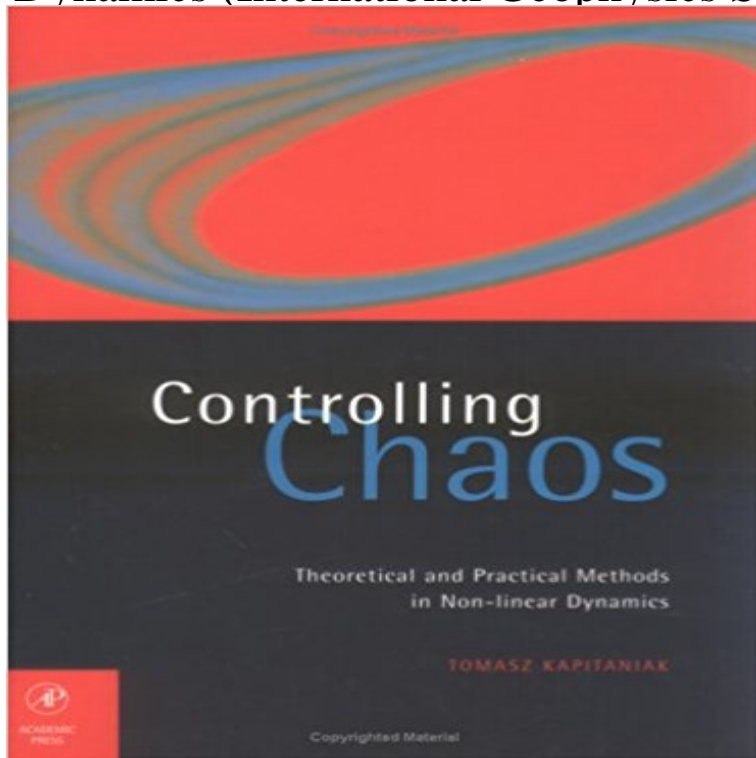


# Controlling Chaos: Theoretical and Practical Methods in Non-linear Dynamics (International Geophysics Series; 63)



More than two decades of intensive studies on non-linear dynamics have raised questions on the practical applications of chaos. One possible answer is to control chaotic behavior in a predictable way. This book, one of the first on the subject, explores the ideas behind controlling chaos. Controlling Chaos explains, using simple examples, both the mathematical theory and experimental results used to apply chaotic dynamics to real engineering systems. Chua's circuit is used as an example throughout the book as it can be easily constructed in the laboratory and numerically modeled. The use of this example allows readers to test the theories presented. The text is carefully balanced between theory and applications to provide an in-depth examination of the concepts behind the complex ideas presented. In the final section, Kapitaniak brings together selected reprinted papers which have had a significant effect on the development of this rapidly growing interdisciplinary field. Controlling Chaos is essential reading for graduates, researchers, and students wishing to be at the forefront of this exciting new branch of science.

\* Uses easy examples which can be repeated by the reader both experimentally and numerically\* The first book to present basic methods of controlling chaos\* Includes reprinted papers representing fundamental contributions to the field\* Discusses implementation of chaos controlling fundamentals as applied to practical problems

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