



# Chaos: From Theory to Applications

*A.A. Tsonis*

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## Chaos: From Theory to Applications A.A. Tsonis

Based on chaos theory two very important points are clear: (1) random looking aperiodic behavior may be the product of determinism, and (2) nonlinear problems should be treated as nonlinear problems and not as simplified linear problems. The theoretical aspects of chaos have been presented in great detail in several excellent books published in the last five years or so. However, while the problems associated with applications of the theory—such as dimension and Lyapunov exponent estimation, chaos and nonlinear prediction, and noise reduction—have been discussed in workshops and articles, they have not been presented in book form. This book has been prepared to fill this gap between theory and applications and to assist students and scientists wishing to apply ideas from the theory of nonlinear dynamical systems to problems from their areas of interest. The book is intended to be used as a text for an upper-level undergraduate or graduate-level course, as well as a reference source for researchers. My philosophy behind writing this book was to keep it simple and informative without compromising accuracy. I have made an effort to present the concepts by using simple systems and step-by-step derivations. Anyone with an understanding of basic differential equations and matrix theory should follow the text without difficulty. The book was designed to be self-contained. When applicable, examples accompany the theory. The reader will notice, however, that in the later chapters specific examples become less frequent. This is purposely done in the hope that individuals will draw on their own ideas and research projects for examples.

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