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Chaos: An Introduction to Dynamical Systems (1st Corrected ed. 1996. Corr. 2nd printing 2000)

By K.T. Alligood, T.D. Sauer, James A. Yorke

Springer-Verlag New York Inc. Paperback. Book Condition: new. BRAND NEW, Chaos: An Introduction to Dynamical Systems (1st Corrected ed. 1996. Corr. 2nd printing 2000), K.T. Alligood, T.D. Sauer, James A. Yorke, "Chaos: An Introduction to Dynamical Systems", was developed and class-tested by a distinguished team of authors at two universities through their teaching of courses based on the material. Intended for courses in nonlinear dynamics offered either in Mathematics or Physics, this text requires only calculus, differential equations, and linear algebra as prerequisites. Along with discussions of the major topics, including discrete dynamical systems, chaos, fractals, nonlinear differential equations and bifurcations, this text also includes Lab Visits, short reports that illustrate relevant concepts from the physical, chemical and biological sciences. There are Computer Experiments throughout the text that present opportunities to explore dynamics through computer simulations, designed to be used with any software package. And each chapter ends with a Challenge, which provides students a tour through an advanced topic in the form of an extended exercise.



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