Chaotic Dynamics of Nonlinear Systems

By S. Neil Rasband

Dover Publications Inc., United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book. Written when the young science of chaos was gaining a foothold in the scientific community, this book introduces the field s concepts, applications, theory, and technique. Suitable for advanced undergraduates and graduate students, researchers, and teachers of mathematics, physics, and engineering, the text s major prerequisite is familiarity with differential equations and linear vector spaces. Author S. Neil Rasband discusses the major models for the transitions to chaos exhibited by dynamic systems, introducing the classical topics and examples fundamental to the discipline. The most important routes to chaos are presented within a unified framework and supported by integrated problem sets. Topics include one- and two-dimensional maps, universality theory, fractal dimension, differential and conservative dynamics, and other subjects. The text is supplemented by a helpful glossary, references, and anindex.

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