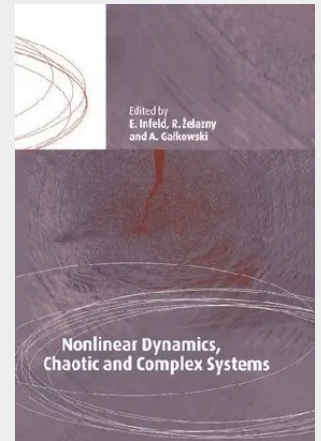


Nonlinear Dynamics, Chaotic and Complex Systems

The physics and mathematics of nonlinear dynamics and chaotic and complex systems constitute some of the most fascinating developments of late twentieth century science. It turns out that chaotic behaviour can be understood, and even utilized, to a far greater degree than had been suspected. Surprisingly, universal constants have been discovered. The implications have changed our understanding of important phenomena in physics, biology, chemistry, economics, medicine and numerous other fields of human endeavour. In this book, two dozen scientists and mathematicians who were deeply involved in the 'nonlinear revolution' cover most of the basic aspects of the field. The book is divided into five parts: dynamical systems, bifurcation theory and chaos; spatially extended systems; dynamical chaos, quantum physics and the foundations of statistical mechanics; evolutionary and cognitive systems; and complex systems as an interface between the sciences.

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173,80 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780521582018

Medium: Buch

ISBN: 978-0-521-58201-8

Verlag: Cambridge University Press

Erscheinungstermin: 04.11.2014

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2014

Produktform: Gebunden

Gewicht: 722 g

Seiten: 350

Format (B x H): 157 x 235 mm

