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Autore	Chapman Robin S
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Altri autori (Persone)	SprottJulien C
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Nota di contenuto	Foreword; Preface; Acknowledgements; Contents; Chapter 1 Dynamical Systems; Dynamical Systems; Simple or Complex?; Linear or Nonlinear?; Chapter 2 Viewing Dynamics; Where Do We Go Next? (Time Series); Chapter 3 Where It All Ends; Attractors; Stillness (Fixed Points); Endless Repetition (Limit Cycles); Doughnuts and Inner Tubes (Tori); Strange Attractors (Chaos); Chapter 4 Routes to Chaos; Fork in the Road (Bifurcations); Skipping a Beat (Period-doubling); On the Edge of Chaos; Chapter 5 Images of Chaos; Chaos or Noise?; Strange Attractors; Stretching and Moving (Iterated Function Systems) Escaping the Attractor (Generalized Julia Sets)Chapter 6 Chaos and Predictability; Time's Arrow; The Butterfly Effect (Sensitive Dependence); Chapter 7 Truth and Beauty; Fractals; Mirror images; Flower Petals; Appendix for the Mathematically Inclined; Index of Images; Test Your Understanding; For Further Reading; Contents of the

Sommario/riassunto

With the poems written by winner of the Posner Poetry Award from the Council of Wisconsin Writers in 2005, this coffee-table book will delight and inform general readers curious about ideas of chaos, fractals, and nonlinear complex systems. Developed out of ten years of interdisciplinary seminars in chaos and complex systems at the University of Wisconsin-Madison, it features multiple ways of knowing: Robin Chapman's poems of everyday experience of change in a complex world, associated metaphorically with Julien Clinton Sprott's full-color computer art generated from billions of versions of on