1. Record Nr. UNINA9910782223203321 Autore Chapman Robin S Titolo Images of a complex world [[electronic resource]]: the art and poetry of chaos / / Robin Chapman, Julien Clinton Sprott; foreword by Clifford A. Pickover River Edge, NJ,: World Scientific, c2005 Pubbl/distr/stampa **ISBN** 1-281-92792-9 9786611927929 981-277-511-0 Descrizione fisica 1 online resource (195 p.) Altri autori (Persone) SprottJulien C Disciplina 003/.857 Soggetti **Dynamics** Chaotic behavior in systems Fractals Nonlinear theories Mathematics in art Mathematics in literature Digital art Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and indexes. 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;

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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