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Optimism; 8.3 Causality and Laplace's Demon; 8.4 Science Today; 8.5 A Look Ahead; II: Chaos; 9 Chaos and the Logistic Equation; 9.1 Periodic Behavior; 9.2 Aperiodic Behavior; 9.3 Chaos Defined; 9.4 Implications of Aperiodic Behavior; Exercises; 10 The Butterfly Effect; 10.1 Stable Periodic Behavior; 10.2 Sensitive Dependence on Initial Conditions; 10.3 SDIC Defined; 10.4 Lyapunov Exponents; 10.5 Stretching and Folding: Ingredients for Chaos
10.6 Chaotic Numerics: The Shadowing Lemma Exercises; 11 The Bifurcation Diagram; 11.1 A Collection of Final-State Diagrams; 11.2 Periodic Windows; 11.3 Bifurcation Diagram Summary; Exercises; 12 Universality; 12.1 Bifurcation Diagrams for Other Functions; 12.2 Universality of Period Doubling; 12.3 Physical Consequences of Universality; 12.4 Renormalization and Universality; 12.5 How are Higher-Dimensional Phenomena Universal?; Exercises; 13 Statistical Stability of Chaos; 13.1 Histograms of Periodic Orbits; 13.2 Histograms of Chaotic Orbits; 13.3 Ergodicity; 13.4 Predictable Unpredictability
16.6 Fractals, Defined Again

Sommario/riassunto

This book provides the reader with an elementary introduction to chaos and fractals, suitable for students with a background in elementary algebra, without assuming prior coursework in calculus or physics. It introduces the key phenomena of chaos - aperiodicity, sensitive dependence on initial conditions, bifurcations - via simple iterated functions. Fractals are introduced as self-similar geometric objects and analyzed with the self-similarity and box-counting dimensions. After a brief discussion of power laws, subsequent chapters explore Julia Sets and the Mandelbrot Set. The last part of the

2. Record Nr.	UNINA9910790238403321
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Titolo	Bodies of thought [[electronic resource]] : embodiment, identity, and modernity / / Ian Burkitt
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Nota di contenuto	Cover; Half Title; Title Page; Copyright; Contents; Acknowledgements; Introduction; Chapter 1: Prolegomenon to Bodies of Thought; Chapter 2: The Ecology of Bodies of Thought; Chapter 3: The Body as Object: from the Grotesque to the Closed Body; Chapter 4: The Thinking Body; Chapter 5: Feminism and the Challenge to Dualism; Chapter 6: Social Relations, Embodiment and Emotions; Chapter 7: Modernity, Self and Embodiment; Conclusion: Relations and the Embodied Person; References; Index
Sommario/riassunto	Manoeuvring between constructionist and realist theories of the social actor, Bodies of Thought is an innovative assessment of Foucaultian, Eliasian and feminist approaches to the body and a sustained critique of post-Cartesian dualisms.