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	Statistical physics
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	Biological physics
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	Astronomy—Observations
	Astrophysics
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	Biological and Medical Physics, Biophysics
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Nota di contenuto	Randomness & complexity in pure mathematics The berry paradox Knots and complex systems Towards a theory of landscapes Coarsening phenomena in one dimension Cosmology as a problem in critical phenomena.

The five contributions describe some key mathematical concepts involved in the study of complex systems and non-perturbative

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Sommario/riassunto

problems. The selection of topics is intended to cross-fertilize the various fields where complex systems theory has made an impact. The book presents specific and detailed results meant for a wide audience of researchers and students. It begins with those contributions which help to set up a general theoretical framework and ends with selected applications to the particular areas of biophysics, statistical physics, astrophysics and cosmology. It also includes an extensive bibliography. This pedagogically written text can be used as an introduction to the fundamental ideas behind complex systems theory.