

1. Record Nr.	UNISA996466811303316
Titolo	Complex Systems and Binary Networks [[electronic resource]] : Guanajuato Lectures, Held at Guanajuato, México, 16 – 22 January 1995 // edited by Ramon Lopez-Pena, Riccardo Capovilla, Ricardo Garcia-Pelayo, Henri Waelbroeck, Federico Zertuche
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1995
ISBN	3-540-44937-X
Edizione	[1st ed. 1995.]
Descrizione fisica	1 online resource (IX, 228 p. 6 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 461
Classificazione	MATH 420
Disciplina	530/.01/1
Soggetti	Thermodynamics Statistical physics Dynamical systems Biophysics Biological physics Observations, Astronomical Astronomy—Observations Astrophysics Geophysics Complex Systems Biological and Medical Physics, Biophysics Astronomy, Observations and Techniques Astrophysics and Astroparticles Geophysics/Geodesy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
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.
Sommario/riassunto	The five contributions describe some key mathematical concepts involved in the study of complex systems and non-perturbative

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.
