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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
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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.
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.