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Collana	Lecture Notes in Physics, , 0075-8450 ; ; 625
Disciplina	530.13
Soggetti	Mathematical physics Applied mathematics Engineering mathematics Biophysics Biological physics Statistics Social sciences Theoretical, Mathematical and Computational Physics Applications of Mathematics Biological and Medical Physics, Biophysics Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences Social Sciences, general
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Nota di contenuto	Rate Equations Approach for Growing Networks -- Directed and Non-Directed Scale-Free Networks -- Mixing Patterns and Community Structure in Networks -- Effect of Accelerated Growth on Networks Dynamics -- Optimization in Complex Networks -- Epidemic Spreading in Complex Networks With Degree Correlations -- Food Web Structure and the Evolution of Complex Networks -- Social Networks: From Sexual Networks to Threatened Networks -- Search and Congestion in Complex Networks -- Membrane Clusters of Ion Channels.
Sommario/riassunto	Networks can provide a useful model and graphic image useful for the

description of a wide variety of web-like structures in the physical and man-made realms, e.g. protein networks, food webs and the Internet. The contributions gathered in the present volume provide both an introduction to, and an overview of, the multifaceted phenomenology of complex networks. Statistical Mechanics of Complex Networks also provides a state-of-the-art picture of current theoretical methods and approaches.