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Emergent Collective Properties, Networks and Information in Biology, Volume 40 (New Comprehensive Biochemistry)

J. Ricard

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The concept of network as a mathematical description of a set of states, or events, linked according to a certain topology has been developed recently and has led to a novel approach of real world. This approach is no doubt important in the field of biology. In fact biological systems can be considered networks. Thus, for instance, an enzyme-catalysed reaction is a network that links, according to a certain topology, the various states of the protein and of its complexes with the substrates and products of the chemical reaction. Connections between neurons, social relations in animal and human populations are also examples of networks. Hence there is little doubt that the concept of network transgresses the boundaries between traditional scientific disciplines.

This book is aimed at discussing in physical terms these exciting new topics on simple protein model lattices, supramolecular protein edifices, multienzyme and gene networks.

*Physical and mathematical approach of biological phenomena.
*Offers biochemists and biologists the mathematical background required to understand the text.
*Associates in the same general formulation, the ideas of communication of a message and organization of a system.
*Provides a clear-cut definition and mathematical expression of the concepts of reduction, integration, emergence and complexity that were so far time-honoured and vague

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