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The theory of hypercycles, developed for cycles of autocatalytic reactions and widely accepted in biochemistry and molecular biology can also be applied for ecological systems. The model of conjugated hypercycles, applied to ecological systems explains many aspects of their non-linear dynamics and can be used for analysis of oscillating processes in ecological systems.

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In classical thermodynamics, the environment is the surroundings that has an influence on a given system, the usually system being some gas within a cylinder, and the environment loosely defined as 'a thermal reservoir'.

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Thermoeconomics - Wikipedia

The description of an ecosystem by a model reflects the constraints of the thermodynamic laws on the ecosystem. The concept of an ecosystem, widely used in ecology, makes it possible to distinguish the system and the environment in a thermodynamic sense.

Towards a Thermodynamic Theory for Ecological Systems ...

The book presents a consistent and complete ecosystem theory based on thermodynamic concepts. The first chapters are devoted to an interpretation of the first and second law of thermodynamics in ecosystem context. Then Prigogine's use of far from equilibrium thermodynamic is used on ecosystems to explain their reactions to perturbations.

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