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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.

Some Applications of Thermodynamics for 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'.

Introduction to environmental thermodynamics

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Ecological Modelling - Journal - Elsevier

Thermodynamics can quantify exactly how "organized" or "disorganized" a system is - an extremely useful to know when trying to understand how a dynamic ecosystem is behaving.A part of the Environmental and Ecological (Math) Modeling series, Thermodynamics and Ecology is a book-length study - the first of its kind - of the current thinking on how an ecosystem can be explained and predicted in ...

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Thermoeconomics is based on the proposition that the role of energy in biological evolution should be defined and understood not through the second law of thermodynamics but in terms of such economic criteria as productivity, efficiency, and especially the costs and benefits (or profitability) of the various mechanisms for capturing and utilizing available energy to build biomass and do work.

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.

Towards a Thermodynamic Theory for Ecological Systems ...

Environmental problems are becoming an important aspect of our lives as industries grow apace with populations throughout the world. Thermodynamics, Solubility and Environmental Issues highlights some of the problems and shows how chemistry can help to reduce these them. The unifying theme is Solubility – the most basic and important of thermodynamic properties.

Thermodynamics, Solubility and Environmental Issues ...

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