



Towards a Thermodynamic Theory for Ecological Systems



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Towards A Thermodynamic Theory For Ecological Systems:

Towards a Thermodynamic Theory for Ecological Systems S.E. Jorgensen, Y.M. Svirezhev, 2004-07-06 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 The introduction of the concept exergy makes it possible to give a more profound and comprehensive explanation of the ecosystem's reactions and growth patterns A tentative fourth law of thermodynamic is formulated and applied to facilitate these explanations The trophic chain the global energy and radiation balance and pattern and the reactions of ecological networks are all explained by the use of exergy Finally it is discussed how the presented theory can be applied more widely to explain ecological observations and rules to assess ecosystem health and to develop ecological models

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Thermodynamics and Ecological Modelling Sven E. Jorgensen, 2000-09-28 Thermodynamics is used increasingly in ecology to understand the system properties of ecosystems because it is a basic science that describes energy transformation from a holistic view In the last decade many contributions to ecosystem theory based on thermodynamics have been published therefore an important step toward integrating these theories and encouraging a more wide spread use of them is to present them in one volume An

ecosystem consists of interdependent living organisms that are also interdependent with their environment all of which are involved in a constant transfer of energy and mass within a general state of equilibrium or disequilibrium 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 terms of its thermodynamical behavior After the introductory chapters on the fundamentals of thermodynamics the book explains how thermodynamic theory can be specifically applied to the measurement of an ecosystem including the assessment of its state of entropy and enthalpy Additionally it will show economists how to put these theories to use when trying to quantify the movement of goods and services through another type of complex living system a human society

Encyclopedia of Ecology Sven Erik Jørgensen, Brian D. Fath, 2008 The Encyclopedia of Ecology contains contributions from international experts on a diverse array of topics related to ecology It provides current and comprehensive information on many themes including behavioral ecology ecological processes ecological modeling ecological engineering ecological indicators ecological informatics ecosystems ecotoxicology evolutionary ecology general ecology global ecology human ecology and systems ecology The online version includes extensive internal cross referencing and dynamic linking to journal articles and abstract databases *Exergy-based Analysis and Optimization of Computer Thermal Management Systems* Amip Jagat Shah, 2005 *Encyclopedia of Ecology: G-O* Sven Erik Jørgensen, Brian D. Fath, 2008 **Laws, Theories, and Patterns in Ecology** Walter Kennedy Dodds, 2009 Physics and chemistry are distinguished from biology by the way generalizations are codified into theories tested by observation and experimentation This work enumerates generalizations in ecology It describes how the practice of science in general and ecology specifically yields theories and laws BOOK PUBLISHER WEBSITE *Encyclopedia of Ecology: D-F* Sven Erik Jørgensen, 2008 *Bulletin of the Ecological Society of America*, 1987 *American Book Publishing Record*, 2004 *Towards a Plan of Actions for Mankind: Design of global systems models and their limitations*, 1977 *Ecosystem Theory for Biological Oceanography* International Council of Scientific Unions. Scientific Committee on Oceanic Research, 1985 **Canadian Journal of Fisheries and Aquatic Sciences**, 1994 **Journal of Non-equilibrium Thermodynamics**, 1984 *Ecology, the Ascendent Perspective* Robert E. Ulanowicz, 1997 A challenge to existing Newtonian and Darwinian paradigms Ecology the Ascendent Perspective demonstrates that a theoretically reshaped science of ecology better suited to portraying the dynamics of the natural world can be a more effective means of ensuring its health *Introduction to Systems Ecology* Sven Jorgensen, 2016-04-19 Possibly the first textbook to present a practically applicable ecosystems theory Introduction to Systems Ecology helps readers understand how ecosystems work and how they react to disturbances It demonstrates with many examples and illustrations how to apply the theory to explain observations and to make quantitative calculations and predictions

Interdependence of Biodiversity and Development Under Global Change Pierre L. Ibisch, 2010 This new volume of the CBD Technical Series presents an analysis of the systemic character of global change biodiversity and human development and the relationships between them **New Directions in the Analysis of Ecological Systems** George S. Innis, 1975

The Environmental Tradition in English Literature John Parham, 2002 Drawing upon the English literary tradition for new perspectives and paradigms this collection presents a broad range of theoretical and historical approaches to ecocriticism The first section of the volume offers different theoretical frameworks for ecocritical work encompassing a range of socio political post modern and multi disciplinary approaches In the second section contributors explore the ways in which ecocriticism allows us to re think literary history

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