

SECOND EDITION

A NEW ECOLOGY SYSTEMS PERSPECTIVE

A complete revision of work by top ecologists on the systems approach to ecology, updated with new perspectives and research.

Authored by

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Key Features

- Every chapter has been revised, updated or redeveloped to include the most current research and technology
- Reviews universal traits of ecosystems from multiple perspectives, giving the reader a complete overview of the systems perspective of ecology
- Offers broad examples of ecology as a systems science, from the history of science to philosophy to the arts, making this reference work engaging for readers
- Brings together the systems perspective in a framework of four columns for greater understanding: thermodynamics, network theory, hierarchy theory and biochemistry
- Contains a new chapter on application of the theory to environmental management

A New Ecology: Systems Perspective, Second Edition, gives an overview of the commonalities of all ecosystems from a variety of properties: physical openness, ontic openness, directionality, connectivity, a complex dynamic for growth and development and a complex dynamic response to disturbances. Each chapter details basic and characteristic properties and then helps the reader understand how they can be applied to explain a wide spectrum of current ecological research and environmental management applications.



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