



# A New Ecology: Systems Perspective

*Sven Erik Jørgensen, Brian Fath, Simone Bastianoni, Joao C. Marques, Felix Muller, S. Nors Nielsen,  
Bernard D. Patten, Enzo Tiezzi, Robert E. Ulanowicz*

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**A New Ecology** presents an ecosystem theory based on the following ecosystem properties: physical openness, ontic openness, directionality, connectivity, a complex dynamic for growth and development, and a complex dynamic response to disturbances. Each of these properties is developed in detail to show that these basic and characteristic properties can be applied to explain a wide spectrum of ecological observations and conceptions. It is also shown that the properties have application for environmental management and for assessment of ecosystem health.

- \* Demonstrates an ecosystem theory that can be applied to explain ecological observations and rules
- \* Presents an ecosystem theory based upon a systems approach
- \* Discusses an ecosystem theory that is based on a few basic properties that are characteristic for ecosystems

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