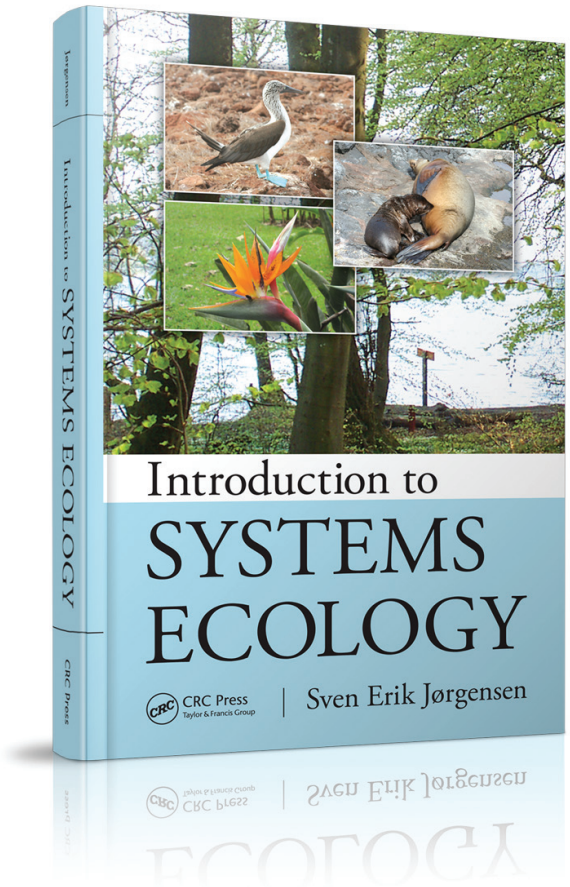
Introduction to Systems Ecology

Sven Erik Jørgensen, Copenhagen University, Denmark

A volume in the series
Applied Ecology and Environmental Management

Series edited by Sven Erik Jørgensen

Using quantitative methods to understand how ecological systems operate and influence each other, this textbook presents a complete and practically applicable ecosystems theory. The book is built on fourteen principles for ecological systems, including the general application of energetics principles in systems ecology. Written by an internationally recognized expert, this work provides readers with a thorough understanding of how ecosystems work and how they react to disturbances such as pollution. The holistic systems ecology described has a wide application in conservation biology, ecological modeling, assessment of ecosystem health and sustainability, and ecotechnology.



Features

- Presents a complete and practically applicable ecosystem theory that offers a general frame of reference for ecological disciplines
- Integrates four aspects of systems ecology: thermodynamics, biochemistry, network theory, and hierarchical organization
- Summarizes important points at the end of each chapter
- Includes plenty of examples and more than 100 exercises and problems for students to solve
- Contains more than 100 black-and-white illustrations and a 32-page color insert

Solutions manual available upon qualifying course adoption

Catalog no. K12561
April 2012
360 pp.
ISBN: 978-1-4398-5501-0
$99.95 / £63.99

Bulk pricing is available. Please contact a sales representative.

www.crcpress.com

CRC Press
Taylor & Francis Group

e-mail: orders@crcpress.com
1-800-634-7064 • 1-561-994-0555 • +44 (0) 1235 400 524

Table of Contents

Chapters include a summary of important points and exercises or problems.

www.crcpress.com

CRC Press
Taylor & Francis Group

e-mail: orders@crcpress.com
1-800-634-7064 • 1-561-994-0555 • +44 (0) 1235 400 524