

THIRD EDITION

INSECT ECOLOGY

An Ecosystem Approach



The third edition of **Insect Ecology: An Ecosystem Approach** provides a modern perspective of insect ecology that integrates two approaches traditionally used to study insect ecology: evolutionary and ecosystem. This integration substantially broadens the scope of insect ecology and contributes to prediction and resolution of the effects of current environmental changes, as these affect and are affected by insects. The third edition includes an updated and expanded synthesis of feedbacks and interactions between insects and their environment. This updated material, including a new chapter on applications of insect ecology to social and environmental issues, effectively demonstrates how evolutionary and ecosystem approaches complement each other, with the intent of stimulating further integration of these approaches in experiments that address insect roles in ecosystems. Effective management of ecosystem resources depends on evaluation of the complex, often complementary, effects of insects on ecosystem conditions, as well as insect responses to changing conditions.

Key Features

- Full coverage of ecosystem structure and function, balanced with essential background on evolutionary aspects
- New chapter on applications to issues such as pest management, ecosystem restoration, invasive species, and environmental changes
- Case studies that highlight practical and theoretical applications for topics covered in each chapter

PRaise for Previous Editions

Insect Ecology is remarkable for its scope, breadth, and comprehensiveness. ... Absolutely indispensable for graduate students, faculty, and professionals in entomology and ecology
CHOICE

The book is well written and designed. It includes excellent overview and synthesis chapters, and each individual chapter ends with a concise summary. ... I recommend that students, professionals, and amateur entomologists read this excellent volume.
ECOLOGY

Schwartz's [second edition] is a gem - a complete course in modern ecology from the vantage point of insects in ecological systems. Accessible and engaging, it treats the most complex ecological phenomena, from individual behavior and population processes through landscape and regional-scale issues.
Dan Simberloff, University of Tennessee



ACADEMIC PRESS

An imprint of Elsevier
elsevierdirect.com

ISBN 978-0-12-381351-0



9 780123 813510