1. Record Nr. UNINA9910783170003321

Titolo	Theoretical approaches to biological control / / editors, Bradford A. Hawkins, Howard V. Cornell
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 1999
ISBN	1-107-11352-0 1-280-41857-5 9786610418572 0-511-17471-3 0-511-02084-8 0-511-15471-2 0-511-32848-6 0-511-54207-0 0-511-05376-2
Descrizione fisica	1 online resource (xii, 412 pages) : illustrations; digital, PDF file(s)
Disciplina	632/.96
Soggetti	Pests - Biological control Insect pests - Biological control Pests - Biological control - Mathematical models Insect pests - Biological control - Mathematical models Biological pest control agents
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	; pt. I. Biological control theory: past and present. ; 1. The theoretical foundations of biological control / Alan A. Berryman. ; 2. Recent developments in theory for biological control of insect pests by parasitoids / Cheryl J. Briggs, William W. Murdock and Roger M. Nisbet. ; 3. Models in biological control: a field guide / Nigel D. Barlow -- ; pt. II. Ecological considerations. ; 4. The uniformity and density of pest exploitation as guides to success in biological control / Michael E. Hochberg and Robert D. Holt. ; 5. Biological control of insect pests: a tritrophic perspective / Nick J. Mills and Andrew P. Gutierrez. ; 6. The case for indigenous generalists in biological control / Gary C. Chang

	and Peter Kareiva.
Sommario/riassunto	Biological control is the suppression of pest populations using predators, parasitoids and pathogens. Historically, biological control has largely been on a trial-and-error basis, and has failed more often than it has succeeded. However by developing theories based upon fundamental population principles and the biological characteristics of the pest and agent, we can gain a much better understanding of when and how to use biological control. This book gathers together recent theoretical developments and provides a balanced guide to the important issues that need to be considered in applying ecological theory to biological control. It will be a source of productive and stimulating thought for all those interested in pest management, theoretical ecology and population biology.