

1. Record Nr.	UNINA990006965110403321
Autore	Fisher, Irving <1867-1947>
Titolo	The Making of Index Numbers : a study / Irving Fisher
Pubbl/distr/stampa	Boston ; New York : Houghton Mifflin Company, 1922
Descrizione fisica	526 p. ; 24 cm
Disciplina	338.544
Locazione	FGBC
Collocazione	XV I 194
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910785618703321
Autore	Moore John C
Titolo	Energetic Food Webs [[electronic resource]] : An analysis of real and model ecosystems
Pubbl/distr/stampa	Oxford, : OUP Oxford, 2012
ISBN	0-19-164642-3 1-283-57702-X 9786613889478 0-19-164641-5
Descrizione fisica	1 online resource (344 p.)
Collana	Oxford Series in Ecology and Evolution
Altri autori (Persone)	De RuiterPeter Cornelis <1952->
Disciplina	577 577.16
Soggetti	Coral reef ecology Food chains (Ecology) Science -- Experiments Science -- Study and teaching
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

**Note generali****Nota di contenuto**

Description based upon print version of record.

Cover; Contents; Chapter 1 Approaches to studying food webs; 1.1 Introduction; 1.2 Traditions in ecology; 1.2.1 The community perspective; 1.2.2 The ecosystem perspective; 1.3 Food webs and traditions in ecology; 1.3.1 Theoretically based food webs; 1.3.2 Empirically based food webs: architecture; 1.3.3 Empirically based food webs: information; 1.3.4 How useful are these descriptions?; 1.4 Bridging perspectives through energetics; 1.4.1 Core concepts and elements; 1.4.2 Comments on our approach to studying food webs; 1.5 An overview of the parts and chapters; 1.6 Summary

Part I: Modeling simple and multispecies communities

Chapter 2 Models of simple and complex systems; 2.1 Introduction; 2.2 Model structure and assumptions; 2.3 Stability; 2.4 Simple food chains; 2.5 The dynamics of primary-producer-based and detritus-based models; 2.6 Summary and conclusions; Chapter 3 Connectedness food webs; 3.1 Introduction; 3.2 Soil food webs; 3.3 The CPER soil food web; 3.4 Summary and conclusions; Chapter 4 Energy flux food webs; 4.1 Introduction; 4.2 Biomass and physiological parameters; 4.3 Feeding rates and mineralization rates; 4.4 Energy flux descriptions; 4.5 Summary and conclusions

Chapter 5 Functional webs; 5.1 Introduction; 5.2 Interaction strengths; 5.3 A functional food web for the CPER; 5.4 Summary and conclusions; Part II: The dynamics and stability of simple and complex communities; Chapter 6 Energetic organization and food web stability; 6.1 Introduction; 6.2 Energetic organization and stability; 6.3 Distribution of interaction strengths: trophic-level-dependent interaction strengths; 6.4 Summary and conclusions; Chapter 7 Enrichment, trophic structure, and stability; 7.1 Introduction; 7.2 Simple primary-producer-based and detritus-based models; 7.3 Trophic structure and dynamics along a productivity gradient; 7.4 More complex models; 7.5 Connections to real-world productivity; 7.6 Summary and conclusions; Chapter 8 Modeling compartments; 8.1 Introduction; 8.2 Complexity, diversity, compartments, and stability; 8.3 Defining compartments; 8.4 Approaches to studying compartments; 8.5 The energy channel; 8.6 Energy channels-structure and stability; 8.7 Summary and conclusions; Chapter 9 Productivity, dynamic stability, and species richness; 9.1 Introduction; 9.2 Trophic structure, dynamics, and productivity; 9.3 Feasibility revisited; 9.4 Feasibility and the hump-shaped curve; 9.5 Trophic structure and the diversity of production; 9.6 A review of hypotheses; 9.7 Summary and conclusions; Part III: Dynamic food web architectures; Chapter 10 Species-based versus biomass-based food web descriptions; 10.1 Introduction; 10.2 Dynamic food webs-playing Jenga; 10.3 Two case studies; 10.4 Stability, disturbance, and transition; 10.5 Summary and conclusions; Chapter 11 Dynamic architectures and stability of complex systems along productivity gradients; 11.1 Introduction

**Sommario/riassunto**

This novel book bridges the gap between the energetic and species approaches to studying food webs, addressing many important topics in ecology. Species, matter, and energy are common features of all ecological systems. Through the lens of complex adaptive systems thinking, the authors explore how the inextricable relationship between species, matter, and energy can explain how systems are structured and how they persist in real and model systems. Food webs are viewed as open and dynamic systems. The central theme of the book is that the

basis of ecosystem persistence and stability rests on the

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