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Titolo	Metabolic ecology : a scaling approach / / edited by Richard M. Sibly, James H. Brown, and Astrid Kodric-Brown
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Altri autori (Persone)	BrownJames H. <1942 Sept. 25-> Kodric-BrownAstrid SiblyR. M
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Machine generated contents note: Notes on contributorsPrefaceIntroduction: Metabolism as the basis for a theoretical unification of ecologyJames H. Brown, Richard M. Sibly, and Astrid Kodric-BrownPart I: Foundations1. Methodological toolsEthan P. White, Xiao Xiao, Nick J. B. Isaac, and Richard M. Sibly2. The metabolic theory of ecology and its central equationJames H. Brown and Richard M. Sibly3. StoichiometryMichael Kaspari4. Modeling metazoan growth and ontogenyAndrew J. Kerkhoff5. Life historyRichard M. Sibly6. BehaviorApril Hayward, James F. Gillooly, and Astrid Kodric-Brown7. Population and community ecologyNick J.B. Isaac, Chris Carbone, and

Brian McGill8. Predator-prey relations and food websOwen L. Petchey and Jennifer A. Dunne9. EcosystemsKristina J. Anderson-Teixeira and Peter M. Vitousek10. Rates of metabolism and evolutionJohn L. Gittleman and Patrick R. Stephens11. Biodiversity and its energetic and thermalcontrols, 120David StorchPart II: Selected Organisms and Topics12. MicroorganismsJordan G. Okie13. PhytoplanktonElena Litchman14. Land plants: new theoretical directions and empirical prospectsBrian J. Enquist and Lisa Patrick Bentley15. Marine invertebratesMary I. O'Connor and John F. Bruno16. Insect metabolic ratesJames S. Waters and Jon F. Harrison17. Terrestrial vertebratesWilliam Karasov18. Seabirds and marine mammalsDaniel P. Costa and Scott A. Shaffer19. ParasitesRyan F. Hechinger, Kevin D. Lafferty, and Armand M. Kuris20. Human ecologyMarcus J. Hamilton, Oskar Burger, and Robert S. WalkerPart III: Practical Applications21. Marine ecology and fisheriesSimon Jennings, Ken H. Andersen, and Julia L. Blanchard22. Conservation biologyAlison G. Boyer and Walter Jetz23. Climate changeKristina J. Anderson-Teixeira, Felisa A. Smith, and S. K. Morgan Ernest24. Beyond biologyMelanie E. Moses and Stephanie Forrest25. Synthesis and prospectJames H. Brown, Richard M. Sibly, and Astrid Kodric-BrownGlossaryReferencesIndexUpdates and additional resources for this book are available from:http://www.wiley.com/go/sibly/metabolicecology.

Sommario/riassunto

"Most of ecology is about metabolism: the ways that organisms use energy and materials. The energy requirements of individuals - their metabolic rates - vary predictably with their body size and temperature. Ecological interactions are exchanges of energy and materials between organisms and their environments. So metabolic rate affects ecological processes at all levels: individuals, populations, communities and ecosystems. Each chapter focuses on a different process, level of organization, or kind of organism. It lays a conceptual foundation and presents empirical examples. Together, the chapters provide an integrated framework that holds the promise for a unified theory of ecology.The book is intended to be accessible to upper-level undergraduate, and graduate students, but also of interest to senior scientists. Its easy-to-read chapters and clear illustrations can be used in lecture and seminar courses. Together they make for an authoritative treatment that will inspire future generations to study metabolic ecology"--
"Explains the new metabolic theory of ecology, puts it into context, and shows how it can be used to answer contemporary problems"--

2.

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Autore	Hardin Garrett <1915-2003.>
Titolo	Living within limits : ecology, economics, and population taboos / / Garrett Hardin
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ISBN	1-280-44202-6 0-19-802403-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (350 p.)
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Soggetti	Birth control Population
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references (p. 313-332) and index.
Nota di contenuto	Contents; 1. The Challenge of Limits; 2. Overpopulation: Escape to the Stars?; 3. Uneasy Litter Mates: Population and Progress; 4. Population Theory: Academia's Stepchild; 5. Default Status: Making Sense of the World; 6. The Ambivalent Triumph of Optimism; 7. Cowboy Economics versus Spaceship Ecology; 8. Growth: Real and Spurious; 9. Exponential Growth of Populations; 10. What Malthus Missed; 11. The Demostat; 12. Generating the Future; 13. Limits: A Constrained View; 14. From Jevons's Coal to Hubbert's Pimple; 15. Nuclear Power: A Nonsolution; 16. Trying to Escape Malthus 17. The Benign Demographic Transition18. Making Room for Human Will; 19. Major Default Positions of Human Biology; 20. Carrying Capacity; 21. The Global Pillage: Consequences of Unmanaged Commons; 22. Discriminating Altruisms; 23. The Double C-Double P Game; 24. Birth Control versus Population Control; 25. Population Control: Natural versus Human; 26. The Necessity of Immigration Control; 27. Recapitulation and a Look Ahead; Notes and References; Index
Sommario/riassunto	We fail to mandate economic sanity, writes Garrett Hardin, ""because our brains are addled by...compassion."" With such startling assertions, Hardin has cut a swathe through the field of ecology for decades, winning a reputation as a fearless and original thinker. A prominent biologist, ecological philosopher, and keen student of human

population control, Hardin now offers the finest summation of his work to date, with an eloquent argument for accepting the limits of the earth's resources--and the hard choices we must make to live within them. In Living Within Limits, Hardin focuses on the neg