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Lambeck's Insight Umbrella Species by Taxon; Plants; Invertebrates; Mammals; Birds; Choosing an Appropriate Umbrella Species; Problems with Umbrella Species; Management Implications; Landscape Species; Summary; Chapter 5: Keystone, Engineering, and Foundation Species; The Keystone Species Concept; Classic Keystone Species; Wider Scope; Mesopredator Release in Temperate Ecosystems; Ecological Meltdown in the Neotropics; Keystone Introductions; Removing Invasive Species; Problems with Using Keystone Species as a Conservation Tool; Reasons for Continuing to Use Keystone Species
Ecosystem Engineers Mechanisms of Habitat Modification; Examples of Ecosystem Engineers; Difficulties in using Ecosystem Engineers in Conservation; Advantages of Ecosystem Engineers; Foundation Species; Management Issues; Summary; Chapter 6: Environmental Indicator Species; Ecosystem Health and Biological Integrity; Environmental Indicators; Sentinel Species; Examples of the Uses of Environmental Indicator Species; Marine Pollution; Freshwater Pollution; River Modification; Marine Fisheries; Climate Change in Marine Ecosystems; Proliferation and Obfuscation of Terms; Summary
Chapter 7: Ecological-Disturbance Indicator Species

Sommario/riassunto

Because of the scope of conservation problems, biologists and managers often rely on ""surrogate"" species to act as proxies to represent larger conservation issues. In Conservation by Proxy, conservation biologist and field researcher Tim Caro offers systematic definitions of surrogate species concepts, explores the theories behind them, considers how surrogate species are chosen, examines evidence for and against their utility, and makes recommendations for their continued use.