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and Jeffrey M. Napp; 4. A pragmatic approach for ecosystem-based fisheries assessment and management: a Korean marine ranch ecosystem Chang Ik Zhang and Suam Kim; Part II. Elements of Importance to Management: 5. Unintended consequences sneak in the back door: making wise use of regulations in fisheries management Anne Maria Eikeset, Andries Richter, Florian K. Dickert, Dorothy Dankel and Nils Chr. Stenseth; 6. Population dynamic theory as an essential tool for models in fisheries Mauricio Lima; 7. Recovery of former fish productivity: philopatric behaviors put depleted stocks in an unforeseen deadlock Henrik Svedang, Massimiliano Cardinale and Carl Andre;; 8. Boundary shifts: from management to engagement in complexities of ecosystems and social contexts Peter J. Taylor; 9. Civil society and ecosystem-based fisheries management: traditional roles and future opportunities Tundi Agardy; Part III. Using Patterns: 10. Science and management: matching the questions Charles W. Fowler and Larry Hobbs; 11. Sustainability, ecosystems and fishery management Charles W. Fowler and Shannon McCluskey; 12. On the path to holistic management: ecosystem-based management in marine systems Andrea Belgrano and Charles W. Fowler; Afterword Keith Brander; Index.

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### Sommario/riassunto

Showing how big-picture patterns can help overcome the failures of conventional management, this book is ideal for students, researchers and professionals involved with marine fisheries. It explores not only the current practice of the 'ecosystem approach' to fisheries management but also its critical importance to even larger perspectives. The first section gives a valuable overview of how more and more of the complexity of real-world systems is being recognized and involved in the management of fisheries around the world. The second section then demonstrates how important aspects of real-world systems, involving population dynamics, evolution and behavior, remain to be taken into account completely. This section also shows how we must change the way we think about our involvement in, and the complexity of, marine ecosystems. The final chapters consider how, with the use of carefully chosen macroecological patterns, we can take important steps towards more holistic management of marine fisheries.

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