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planning; 4.2 Fishery objectives; 4.3 A portfolio of fishery objectives; 4.4 Objectives, priorities and conflict; 4.5 Fishery management institutions; 4.6 Time scales of management; 4.7 Spatial scales of management; 4.8 Summary; Chapter 5: Fishery Management 5.1 Appropriate effort and catch levels 5.2 Developing a portfolio of fishery management measures; 5.3 Implementation at the operational level; 5.4 Fishery enforcement; 5.5 A survey of fishery management measures; 5.6 Input (effort) controls; 5.7 Output (catch) controls; 5.8 Technical measures; 5.9 Ecologically based management; 5.10 Indirect economic instruments: taxes and subsidies; 5.11 Summary; Chapter 6: Fishery Development; 6.1 Introduction; 6.2 Objectives of fishery development; 6.3 Fishery development as a priority; 6.4 Targeting fishery development 6.5 Small-scale versus industrial versus foreign fisheries 6.6 A typology of fishery development measures; 6.7 Participatory fishery development; 6.8 Summary; Chapter 7: Fishery Research; 7.1 The need for fishery research; 7.2 The nature of fishery research; 7.3 The structure of fishery research; 7.4 Participants in fishery research; 7.5 Summary; Chapter 8: Dynamics of the Fishery System; 8.1 Time scales; 8.2 Fishery system dynamics: component by component; 8.3 Dynamics of the natural system; 8.4 Dynamics of the human system; 8.5 Dynamics of the management system; 8.6 Information dynamics 8.7 Fishery system dynamics 8.8 Summary; Chapter 9: Case Studies of Fishery Systems; 9.1 Case study 1: Canada's Atlantic groundfish fishery system; 9.2 Case study 2: the fishery system in Costa Rica's Gulf of Nicoya; Part II: Towards Sustainable Fishery Systems; Chapter 10: Sustainability in Fishery Systems; 10.1 The evolving nature of sustainability; 10.2 A framework for sustainability assessment in fishery systems; 10.3 Components of sustainability; 10.4 Sustainability checklist; 10.5 Sustainability indicators; 10.6 Indices of sustainability; 10.7 Validation of sustainability indicators 10.8 Methodological challenges for sustainability assessment

Sommario/riassunto

This book provides a comprehensive attempt to adopt an 'integrated' interdisciplinary approach to the study of fisheries. Fisheries are discussed as holistic 'systems', with emphasis on their structure, operation and dynamics. The book's interdisciplinary approach is applied to an analysis of problems faced in pursuing 'sustainable fisheries', with emphasis on six dominant themes: sustainability, uncertainty, complexity, conflict, fishing rights and the nature of management. Within this discussion, several major directions in current fishery thinking are explored, notably the precautionary app
