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Nota di contenuto	Chapter 1. Fish and fisheries of the temperate Himalayas: An overview and way-forward -- Chapter 2. Fishery resources and ichthyofaunal diversity in the temperate Himalayas -- Chapter 3. Mapping of the Himalayan surface waters using remote sensing and geographic information system tools: An overview of single band-based techniques -- Chapter 4. Fisheries development in open water resources of the temperate Himalaya -- Chapter 5. Diversity and threat to coldwater fishes of river Torsa at the Terai region of West Bengal, India -- Chapter 6. The endangered mighty mahseer (Tor putitora) in the Himalayan waters -- Chapter 7. Aquaculture practices in the temperate Himalayan region -- Chapter 8. Status and prospects of rainbow trout farming in Himalayan waters -- Chapter 9. Fisheries and aquaculture of snow trouts in the Trans-Himalayan region -- Chapter 10. Ornamental Fisheries in Hindu Kush Himalayan Region -- Chapter 11. Recirculating aquaculture system for intensive fish farming in Indian Himalayan region: An overview -- Chapter 12. Coldwater fish nutrition in the Indian Himalayas -- Chapter 13. Molecular characterization and

population structure of the important Himalayan fish species -- Chapter 14. Prospects and challenges of molecular interventions for enhancing aquaculture production in the temperate Himalayas -- Chapter 15. An overview of coldwater fish diseases and their control measuresChapter 16. Oomycetes, fungal-like menace in coldwater aquaculture -- Chapter 17. Antimicrobial peptides: An alternative to antibiotics for environment-friendly hill aquaculture -- Chapter 18. Advances in detection techniques for fungus-like organisms of aquaculture importance -- Chapter 19. Nutritional quality and human health benefits of important coldwater fishes of the Indian Himalayas -- Chapter 20. En-route towards aquaponics in coldwater: Identifying the gaps in principles and system design -- Chapter 21. Impact of climate change in temperate fisheries of the Himalayas and possible adaptation approaches -- Chapter 22. Livelihood opportunities with recreational fisheries and ecotourism -- Chapter 23. Design and operational principle of re-circulatory aquaponic system in the Himalayas: Prospects and challenges -- Chapter 24. Farm design and layout for aquaculture operations in the temperate Himalayas -- Chapter 25. Hydroelectric projects: An inevitable challenge in fisheries of the temperate Himalaya.

Sommario/riassunto

This book covers all aspects of fisheries and aquaculture of the temperate Himalayas, including fisheries resources, fish biodiversity, aquaculture status, prospects, and potential. It also includes mapping of resources, health and disease management of cultured species, feed and nutritional aspects of the cultured fish species, ornamental fisheries aspects, etc. In addition, it elucidates the recent advances in biotechnological interventions for enhancing fisheries and aquaculture productivity in the region. Essential information on the application of Geo Information System (GIS) for resource mapping, the scope of adopting re-circulatory aquaculture system for productivity enhancement, and trout culture in the Himalayan waters are provided in the book. A detailed account of recreational fisheries and fish-based ecotourism in the temperate Himalayas for generating livelihood has been provided. The impact of climate change on the fisheries of the Himalayas has been dealt with separately. The book also covers the conservation and rehabilitation aspects of endangered species of the region. This book will become a ready reference for the scientists, teachers, researchers, students, policymakers, and other stakeholders for managing fishery resources in the temperate Himalayas.