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Nota di contenuto	Problem-Solving in Conservation Biology and Wildlife Management; Contents; Preface; Acknowledgments; Part 1 Introduction; Chapter 1: What is Biodiversity? Spiders as Exemplars of the Biodiversity Concept; Chapter 2: What is Conservation Biology? An Analysis of the Critical Ecosystem Partnership Fund's Strategies and Funding Priorities; Chapter 3: Why is Biodiversity Important? Why Is It Threatened? An Exploration with the IUCN "Red List" of Threatened Species; Part 2 Genes; Chapter 4: Population Genetics: Diversity Within Versus Diversity Among Populations Chapter 5: Genetic Drift: Establishing Population Management Targets to Limit Loss of Genetic Diversity Chapter 6: Pedigree Management: Controlling the Effects of Inbreeding as Indicated by Fluctuating Asymmetry; Chapter 7: Landscape Genetics: Identifying Movement Corridors; Part 3 Populations; Chapter 8: Life Table Analysis: Balancing Commercial Fisheries with Sea Bird "By-Catch"; Chapter 9: Population Viability Analysis: El Niño Frequency and Penguin Population Persistence; Chapter 10: Habitat Loss and Fragmentation: Ecological

Traps, Connectivity, and Issues of Scale

Chapter 11: Diagnosing Declining Populations: Assessing Monitoring Data to Better Understand Causes of Rarity in an Endangered Cactus
Chapter 12: Estimating Population Size with Line Transects and DISTANCE; Chapter 13: Analyzing Camera Trap Data with PRESENCE; Chapter 14: Estimating Population Size with Mark-recapture Data and MARK; Part 4 Species; Chapter 15: Estimating "Biodiversity": Indices, Effort, and Inference; Chapter 16: Designing a Zoo: Ex Situ Centers for Conservation, Research, and Education; Chapter 17: Plant Reintroductions: Reestablishing Extirpated Populations
Chapter 18: Edge Effects: Designing a Nest Predation Experiment
Part 5 Ecosystems and Landscapes; Chapter 19: Ecosystem Fragmentation: Patterns and Consequences for Biodiversity; Chapter 20: Forest Harvesting: Balancing Timber Production and Parrot Habitat; Chapter 21: Protected Areas: A Systematic Conservation Planning Approach for Ecoregions; Chapter 22: Island Biogeography: How Park Size and Condition Affect the Number of Species Protected; Chapter 23: GIS for Conservation: Mapping and Analyzing Distributions of Wild Potato Species for Reserve Design
Chapter 24: Global Change: Will a Cold-Adapted Frog Survive in a Warmer World?
Chapter 25: Climate Envelope Modeling: Inferring the Ranges of Species to Facilitate Biological Exploration, Conservation Planning, and Threat Analysis; Part 6 Policy and Organizations; Chapter 26: Population, Consumption, or Governance: Which Drives Species Imperilment Most in Africa and Europe?; Chapter 27: Overconsumption: Who's Smarter ... Students or their Professors?; Chapter 28: Conservation Values: Assessing Public Attitudes
Chapter 29: Priority Setting: Where Around the Globe Should We Invest Our Conservation Efforts?

Sommario/riassunto

This set of exercises has been created expressly for students and teachers of conservation biology and wildlife management who want to have an impact beyond the classroom. The book presents a set of 32 exercises that are primarily new and greatly revised versions from the book's successful first edition. These exercises span a wide range of conservation issues: genetic analysis, population biology and management, taxonomy, ecosystem management, land use planning, the public policy process and more. All exercises discuss how to take what has been learned and apply it to practical, real-world is
