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Nota di contenuto	Front matter Contents Preface Acknowledgments Chapter Appendixes Figures Tables Abbreviations and Definitions One. Climate Change, Biodiversity, and Ecosystem Health: The Past as a Key to the Future Two. The Pleistocene Fossils of Porcupine Cave, Colorado: Spatial Distribution and Taphonomic Overview Three. The Modern Environment, Flora, and Vegetation of South Park, Colorado Four. The Historical Context of Porcupine Cave: American Indians, Spaniards, Government Surveyors, Prospectors, Ranchers, Cavers, and Paleontologists in South Park, Colorado Five. The Geology and Speleogenesis of Porcupine Cave Six. Magnetostratigraphic Constraints on the Age of Pleistocene Fossiliferous Strata in Porcupine Cave's DMNH Velvet Room Excavation Seven. Age and Correlation of

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	Summary of Fossilized Species in Porcupine Cave Eleven. Synopsis of the Herpetofauna from Porcupine Cave Twelve. The Early and Middle Pleistocene Avifauna from Porcupine Cave Thirteen. The Carnivora from Porcupine Cave Fourteen. Middle Pleistocene (Irvingtonian) Ochotona (Lagomorpha: Ochotonidae) from Porcupine Cave Fifteen. Leporidae of the DMNH Velvet Room Excavations and Mark's Sink Sixteen. Identification of Miscellaneous Mammals from the Pit Locality: Including Soricidae, Leporidae, Geomyoidea Seventeen. Systematics and Faunal Dynamics of Fossil Squirrels from Porcupine Cave Eighteen. Fossil Wood Rats of Porcupine Cave: Tectonic or Climatic Controls? Nineteen. Arvicoline Rodents from Porcupine Cave: Identification, Spatial Distribution, Taxonomic Assemblages, and Biochronologic Significance Twenty. Pliocene and Pleistocene Horses from Porcupine Cave Twenty-One. Pleistocene (Irvingtonian) Artiodactyla from Porcupine Cave Twenty-Two. Irvingtonian Mammals from the Badger Room in Porcupine Cave: Age, Taphonomy, Climate, and Ecology Twenty-Three. Faunal Dynamics of Small Mammals through the Pit Sequence Twenty-Four. Stable Carbon and Oxygen Isotope Analysis of Marmot Cheek Teeth from the Pit Locality Twenty-Five. Assessing the Effect of Middle Pleistocene Climate Change on Marmota Populations from the Pit Locality Twenty-Six. Effect of Climate Change on Terrestrial Vertebrate Biodiversity
Sommario/riassunto	Literature Cited Contributors Index This book chronicles the discovery and analysis of animal fossils found in one of the most important paleontological sites in the world- Porcupine Cave, located at an elevation of 9,500 feet in the Colorado Rocky Mountains. With tens of thousands of identified specimens, this site has become the key source of information on the fauna of North America's higher elevations between approximately 1 million and 600,000 years ago, a period that saw the advance and retreat of glaciers numerous times. Until now, little has been understood about how this dramatic climate change affected life during the middle Pleistocene. In addition to presenting state-of-the-art data from Porcupine Cave, this study also presents groundbreaking analysis on what the data from the site show about the evolutionary and ecological adjustments that occurred in this period, shedding light on how one of the world's most pressing environmental concerns-global climate change-can influence life on earth.