1. Record Nr. UNINA9911007456803321 Autore Spiridonov Vlado Titolo Atmospheric Perspectives: Unveiling Earth's Environmental Challenges // by Vlado Spiridonov, Mladjen uri, Nenad Novkovski Cham:,: Springer Nature Switzerland:,: Imprint: Springer,, 2025 Pubbl/distr/stampa **ISBN** 3-031-86757-2 [1st ed. 2025.] Edizione 1 online resource (XXI, 451 p. 302 illus., 294 illus. in color.) Descrizione fisica 551.5 Disciplina Soggetti Atmospheric science Climatology Physical geography Geophysics Atmospheric Science Climate Sciences Earth System Sciences Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto 1 Introduction -- 2 Geophysical Basis for Understanding Planet Earth's Systems -- 3 Beneath the Surface -- 4 Biosphere -- 5 Hydrosphere and Cryosphere -- 6 Atmosphere -- 7 Solar Radiation -- 8 Earth's Temperature Distribution -- 9 Integrated Mechanisms of Global Ocean-Atmosphere Circulation -- 10 Complex Interactions of Air Masses and Atmospheric Systems -- 11 Exploring Natural Hazards -- 12 The Planet's Natural Environment -- 13 The Planet Under Pressure -- 14 The New Era of Environmental Monitoring. Sommario/riassunto Earth is a complex and ever-changing system, where the atmosphere, oceans, land, and life interact in intricate ways. Atmospheric Perspectives: Unveiling Earth's Environmental Challenges takes readers on a fascinating journey through the science behind these connections, from the planet's origins to the present era of climate transformation. Bridging modern scientific insights with a broader understanding of environmental change, this book explores the forces shaping our globe—from atmospheric dynamics and oceanic circulation to

biodiversity, natural hazards, and human impacts. With accelerating

climate shifts and growing environmental challenges, understanding Earth's delicate balance has never been more crucial. Whether you are a student, researcher, or simply curious about our world, this book offers a compelling exploration of the natural systems that sustain life—and the urgent need to protect them.