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Sommario/riassunto

Biogeochemistry may be defined as the science that combines biological and chemical perspectives for the examination of the Earth's surface, including the relations between the biosphere, lithosphere, atmosphere, and hydrosphere. Biogeochemistry is a comparatively recently developed science, that incorporates scientific knowledge and findings, research methodologies, and models linking the biological, chemical, and earth sciences. Therefore, while it is a definitive science with a strong theoretical core, it is also dynamically and broadly interlinked with other sciences. This book examines the complex science of biogeochemistry from a novel perspective, examining its comparatively recent development, while also emphasizing its interlinked relationship with the earth sciences (including the complementary science of geochemistry), the geographical sciences (biogeography, oceanography, geomatics, earth systems science), the biological sciences (ecology, wildlife studies, biological aspects of environmental sciences) and the chemical sciences (including environmental chemistry and pollution). The book covers cutting-edge topics on the science of biogeochemistry, examining its development, structure, interdisciplinary, multidisciplinary, and transdisciplinary relations, and the future of the current complex knowledge systems, especially in the context of technological, developments, and the computer and data fields. .
