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Nota di contenuto	Chapter 1: Introduction -- Chapter 2: Nitrogen in Solar System Minor Bodies -- Chapter 3: A Mathematic Approach to Nitrogen Fixation Through Earth History -- Chapter 4: Stability of Earth-like N2 Atmospheres -- Chapter 5: Hot Super Earth Atmospheres -- Chapter 6: The Nitrogen Chemistry in Hot Jupiter's Atmosphere -- Chapter 7: Implication of Impacts in the Young Earth Sun Paradox and the Evolution of Earth’s Atmosphere -- Chapter 8: N2O as a Biomarker, from the Earth and Solar System to Exoplanets -- Chapter 9: Formation of a Nitrogen-rich Atmosphere on Titan -- Chapter 10: Nitrogen in the Stratosphere of Titan from Cassini CIRS Infrared Spectroscopy -- Chapter 11: Nitrogen in Titan's Atmospheric Aerosol Factory -- Chapter 12: Nitrogen Fixation by Photochemistry in the Atmosphere of Titan and Implications for Prebiotic Chemistry -- Chapter 13: SNC Meteorites -- Chapter 14: Glossary.
Sommario/riassunto	“The Early Evolution of the Atmospheres of Terrestrial Planets” presents the main processes participating in the atmospheric evolution of terrestrial planets. A group of experts in the different fields provide an

update of our current knowledge on this topic. Several papers in this book discuss the key role of nitrogen in the atmospheric evolution of terrestrial planets. The earliest setting and evolution of planetary atmospheres of terrestrial planets is directly associated with accretion, chemical differentiation, outgassing, stochastic impacts, and extremely high energy fluxes from their host stars. This book provides an overview of the present knowledge of the initial atmospheric composition of the terrestrial planets. Additionally it includes some papers about the current exoplanet discoveries and provides additional clues to our understanding of Earth’s transition from a hot accretionary phase into a habitable world. All papers included were reviewed by experts in their respective fields. We are living in an epoch of important exoplanet discoveries, but current properties of these exoplanets do not match our scientific predictions using standard terrestrial planet models. This book deals with the main physio-chemical signatures and processes that could be useful to better understand the formation of rocky planets.