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Nota di contenuto	The Role of Halogens in Terrestrial and Extraterrestrial Geochemical Processes: Surface, Crust, and Mantle Halogens in Terrestrial and Cosmic Geochemical Systems: Abundances, Geochemical Behaviors, and Analytical Methods Halogen-Rich Minerals: Crystal Chemistry and Geological Significances Halogen Elements in Sedimentary Systems and their Evolution During Diagenesis Halogen Geochemistry of Ore Deposits: Contributions Towards Understanding Sources and Processes Halogens in Mafic and Intermediate-Silica Content Magmas Halogens in Silicic Magmas and their Hydrothermal Systems The Behavior of Halogens during Subduction-Zone Processes Halogens in Seawater, Marine Sediments and the Altered Oceanic Crust and Lithosphere The Role of Halogens during Regional and Contact Metamorphism Halogens in High-Grade Metamorphism Halogens in Hydrothermal Fluids and their Role in the Formation and Evolution of Hydrothermal Mineral Systems The role of Halogens in the Lithospheric Mantle Halogens in the Earth's Mantle: What we know and what we don't Halogens in Chondritic

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	Meteorites The role of Halogens During Fluid and Magmatic Processes on Mars Halogens on and within the Ocean Worlds of the Outer Solar System.
Sommario/riassunto	The book summarizes the knowledge and experiences concerning the role of halogens during various geochemical processes, such as diagenesis, ore-formation, magma evolution, metasomatism, mineralization, and metamorphism in the crust and mantle of the Earth. It comprises the role of halogens in other terrestrial worlds like volatile-rich asteroids, Mars, and the ice moons of Jupiter and Saturn. Review chapters outline and expand upon the basis of our current understanding regarding how halogens contribute to the geochemical/geophysical evolution and stability of terrestrial worlds overall.