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Descrizione fisica	1 online resource (VII, 368 p. 377 illus., 102 illus. in color.)
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction to Igneous Rocks -- Phase relations in simple systems: Key to magma generation, crystallization, and mixing -- Phase Relationships in Ternary Systems -- Magma formation and segregation -- Igneous Rock Series: Basalt Magma Evolution -- Basalt Magma Generation: Perspectives from Experimental Petrology -- Basaltic Magmatism at Mid-Oceanic Ridges and Hawaiian Hot Spot -- Large Igneous Provinces: Deccan Traps and Columbia River Basalts -- Subduction Zone Magmas -- Alkaline and Ultra-Alkaline Rocks, Carbonatites, and Kimberlites -- Anorthosites and Komatiites -- Sediments -- Sedimentary Rocks -- Metamorphism and Metamorphic Rocks -- Metamorphic Facies, Reactions, and P–T–t Paths.
Sommario/riassunto	This undergraduate textbook on the key subject of geology closely follows the core curriculum adopted by most universities throughout the world and is a must for every geology student. It covers all aspects of petrology, including not only the principles of petrology but also applications to the origin, composition, and field relationships of rocks. Although petrology is commonly taught in the junior year, this book is a useful resource for graduate students as well.