1. Record Nr. UNINA9911019177003321

Autore	Rosenberg Claudio L
Titolo	Geodynamics of the Alps 2 : Pre-Collisional Processes
Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2024 ©2024
ISBN	9781394299539 1394299532 9781394299515 1394299516
Edizione	[1st ed.]
Descrizione fisica	1 online resource (376 pages)
Altri autori (Persone)	BellahsenNicolas
Disciplina	551.1
Soggetti	Geodynamics Alps
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Introduction -- Chapter 1. Paleozoic Evolution and Variscan Inheritance in the Alps -- 1.1. Introduction -- 1.2. The Paleozoic setting in Europe -- 1.2.1. General setting: a crustal basement structured by Paleozoic orogenies -- 1.2.2. Pre-Variscan history of the European basement -- 1.2.3. The Variscan orogeny in Europe -- 1.3. The basement outcrops in the Alps -- 1.4. Paleozoic evolution in the Alpine basement -- 1.4.1. Late Proterozoic evolution: an active margin setting along northern Gondwana -- 1.4.2. Cambrian–Ordovician extension and opening of eastern Rheic Ocean -- 1.4.3. Ordovician to Silurian crustal extension -- 1.4.4. Devonian–Carboniferous convergence and Variscan collision -- 1.4.5. Crustal extension and post-orogenic collapse -- 1.5. Discussion -- 1.5.1. Place of the Alpine domain in the Variscan puzzle -- 1.5.2. Pre-Variscan position of the Alpine basement units -- 1.5.3. Significance of Variscan high-pressure metamorphism in the Alps -- 1.6. Conclusion -- 1.7. Acknowledgments -- 1.8. References -- Chapter 2. Paleogeography and Architecture of the Alpine Tethys Margins -- 2.1. Introduction: conjugate passive margins -- 2.2. The contours and the internal

	division of the Adria plate -- 2.2.1. Situation in the Triassic (250–200 Ma) -- 2.2.2. Opening of the Piemont-Liguria Ocean (200–145 Ma)
Sommario/riassunto	This book offers an in-depth examination of the geodynamics of the Alps, focusing on the processes and structures that have shaped the region's continental lithosphere. Coordinated by Claudio L. Rosenberg and Nicolas Bellahsen, it explores topics such as the Paleozoic evolution, Variscan inheritance, and the architecture of the Alpine Tethys margins. The book aims to provide a comprehensive understanding of the geological history and tectonic activities in the Alps, making it a valuable resource for geoscientists, researchers, and students interested in geology and tectonics.