

1. Record Nr.	UNINA9910337910003321
Titolo	The Geology of Iberia: A Geodynamic Approach : Volume 4: Cenozoic Basins // edited by Cecilio Quesada, José Tomás Oliveira
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-11190-3
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (195 pages)
Collana	Regional Geology Reviews, , 2364-6438
Disciplina	551.78 554.46
Soggetti	Geology Geophysics Natural disasters Geophysics/Geodesy Natural Hazards
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Preface -- 2. Cenozoic basins in Iberia: an introduction -- 3. Alpine foreland basins -- 4. Extension in the West Mediterranean -- 5. Cenozoic basins of western Iberia (Mondego, Lower Tejo and Alvalade basins) -- 6. Late-orogenic intermontane foreland basins in Iberia -- 7. Cenozoic magmatism in Iberia.
Sommario/riassunto	Pursuing an innovative, global approach, this unique book provides an updated review of the geology of Iberia and its continental margins from a geodynamic perspective. Owing to its location close to successive plate margins, Iberia has played a pivotal role in the geodynamic evolution of the Gondwanan, Rheic, Pangea, Tethys and Eurasian plates over the last 600 Ma of Earth's history. The geological record starts with the amalgamation of Gondwana in the Neoproterozoic, which was succeeded by the rifting and spreading of the Rheic ocean; its demise, which led to the amalgamation of Pangea in the late Paleozoic; the rifting and spreading of several arms of the Neotethys ocean in the Mesozoic Era and their ongoing closure, which was responsible for the Alpine orogeny. The significant advances in the

last 20 years have increasingly attracted international interest in exploring the geology of the Iberian Peninsula. This volume focuses on the Cenozoic basins of the Iberian Geology and consequently the most recent sedimentary features in the Iberian Geology apart of the active ones. In this book, you will find a detailed explanation of the alpine foreland basins, the extension of the west Mediterranean as well as the latest magmatism in Iberia.
