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Anatomy of an Orogen: The Apennines and Adjacent ...

This is the first book in English reviewing and updating the geology of the whole Apennines, one of the recent most uplifted mountains in the world. The Apennines are the place from which Steno (1669)

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Anatomy of an Orogen: The Apennines and Adjacent ...

The anatomy of a deep intracontinental orogen Tom Raimondo,¹ Alan S. Collins,¹ Martin Hand,¹ Althea Walker-Hallam,^{1,2} R. Hugh Smithies,³ Paul M. Evins,^{3,4} and Heather M. Howard³ Received 25 March 2009; revised 8 April 2010; accepted 27 April 2010; published 12 August 2010.

The anatomy of a deep intracontinental orogen

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Anatomy of an Orogen: The Apennines and Adjacent Mediterranean Basins . Edited By: GB Vai and IP Martini. 632 pages, Figs, tabs, maps . Publisher: Kluwer Academic Publishers. Click to have a closer look. ISBN: 9780412750403 Hardback Dec 2001 Usually dispatched within 1-2 weeks. £199.99 #130226 ...

Anatomy of an Orogen: The Apennines and Adjacent ...

The Hellenide orogen in Greece is part of the Alpine-Himalaya mountain belt, created during the destruction of Tethys by the convergence of Gondwana and Eurasia.

The igneous rocks of Greece: the anatomy of an orogen ...

[4] In order to illuminate better the characteristic anatomy of an intracontinental orogen, this paper presents in more detail the structural, metamorphic and geochronologic record of deep intracratonic reworking associated with the Petermann Orogeny.

The anatomy of a deep intracontinental orogen - Raimondo ...

An orogen or orogenic belt develops when a continental plate crumples and is uplifted to form one or more mountain ranges; this involves a series of geological

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processes collectively called orogenesis. Orogeny is the primary mechanism by which mountains are built on continents.

Orogeny - Wikipedia

Reconnaissance SHRIMP U-Pb zircon dating of 90 samples from the Early Proterozoic Nagssugtoqidian orogen of West Greenland, together with previous age and isotope data as well as new field observations, yields information on some large-scale structures of the orogen: 1900–1940 Ma dioritic to tonalitic juvenile arc rocks (positive initial ϵ_{Nd} values) are thrust more than 50 km over ...

Anatomy of the Early Proterozoic Nagssugtoqidian orogen ...

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The book of G. Pe-Piper and D.J. Piper (2002), entitled "The igneous rocks of Greece: The anatomy of an orogen" has been rightfully considered a milestone for the studies of where several small ...

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The Igneous Rocks of Greece. The Anatomy of an Orogen ...

These UHT rocks form part of an ultrahot orogen that formed along the collisional margin of the NCC associated with the tectonics of assembly of the Paleoproterozoic supercontinent Columbia.

Anatomy of Zircons from an Ultrahot Orogen: The ...

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Abstract. The Neoproterozoic Damara orogen in Namibia records the Gondwanan assembly of the Congo–Kalahari–Rio de la Plata cratons. Sedimentological and stratigraphic analyses of the Otavi (mostly carbonate) and Mulden (siliciclastic molasse) Groups exposed along the southwestern margin of the Congo craton indicate that foreland-basin orogenesis began during middle Otavi (ca. 600–750 Ma); this time frame is earlier than that for the Nama foreland (ca. 550 Ma) on the

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Kalahari craton.

Tale of three cratons: Tectonostratigraphic anatomy of the ...

In order to illuminate better the characteristic anatomy of an intracontinental orogen, this paper presents in more detail the structural, metamorphic and geochronologic record of deep intracratonic reworking associated with the Petermann Orogeny.

The anatomy of a deep intracontinental orogen, Tectonics ...

Anatomy of Zircons from an Ultrahot Orogen: The Amalgamation of the North China Craton within the Supercontinent Columbia. M. Santosh, 1 Yusheng Wan, 2 Dunyi Liu, 2 Dong Chunyan, 2 and Jianghai Li 3. Department of Natural Environmental Science, Faculty of Science, Kochi University, Akebono-cho 2-5-1, Kochi 780-8520, Japan ...

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9780412750403: Anatomy of an Orogen: The Apennines and ...

Anatomy of an Orogen: The Apennines and Adjacent Mediterranean Basins by F. Vai, 9780412750403, available at Book Depository with free delivery worldwide.

This is the first book in English reviewing and updating the geology of the whole Apennines, one of the recent most uplifted mountains in the world. The Apennines are the place from which Steno (1669) first stated the principles of geology. The Apennines also represent amongst others, the finding/testing sites of processes and products like volcanic eruptions, earthquakes, olistostromes and mélanges (argille scagliose), salinity crisis, geothermal fluids, thrust-top basins, and turbidites (first represented in a famous Leonardo's painting). As such, the Apennines are a testing and learning ground readily accessible and rich of any type of field data. A growing literature is available most of which is not published in widely available journals. The objective of the book is to provide a synthesis of current data and ideas on the Apennines, for the most part simply written and suitable for an international audience. However, sufficient details and in-depth analyses of the various complex settings have been presented to make this material useful to professional scholars and to students of senior university courses.

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The Hellenide orogen in Greece is part of the Alpine-Himalaya mountain belt, created during the destruction of the Tethys ocean by the convergence of Gondwana and Eurasia. Within Greece, there is the record of a complete Wilson tectonic cycle of continental rifting, sea-floor spreading, plate subduction, and continental collision during Mesozoic and Cenozoic time. This book presents a new synthesis of the geological history of Greece as revealed by the varied igneous rocks. It is based on more than 30 years of field and laboratory studies by the authors together with a synthesis of the widely scattered published literature, that was written in many different languages. Basement rocks record Hercynian subduction and plutonism on the northern margin of Gondwana, which in the Permian and Triassic rifted into several microcontinents, thereby creating the eastern Mediterranean Neotethys ocean. Partial closure of strands of the Neotethys ocean resulted in the emplacement of Jurassic and Cretaceous ophiolites. Early Tertiary age collision produced a Hellenide mountain chain similar to the Alps and Himalayas. Rapid Neogene extension of the Hellenides behind the modern South Aegean arc has formed the Aegean Sea, triggered widespread back-arc igneous activity, and unroofed mid-crustal rocks. The geological setting, geochemistry, and significance of each group of rocks is presented in detail, with numerous maps and figures.

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"The American Cordilleras form a continuous orogen that extends for 12,500 km along the eastern flank of the Pacific Ocean from Arctic to Antarctic latitudes as an integral part of the circum-Pacific orogenic belt. Following two summary chapters on the overall anatomy and evolution of North and South American segments of the orogenic system, this volume includes ten seminal chapters dealing with salient aspects of the key geodynamic processes that have accompanied Cordilleran geotectonic evolution: forearc terrane accretion, arc magmatism, shallow subduction, and backarc intracontinental deformation. The papers in this volume were selected from those presented at the 2006 Backbone of the Americas Meeting, which was sponsored jointly by multiple North and South American geological societies in Mendoza, Argentina."--pub. desc.

Focusing on mountain ranges that are relatively unfamiliar to most geologists, this work expands our view of tectonics beyond a standardized textbook approach and illustrates both the extraordinary variety of mountain ranges over the world through time and many of the basic similarities they display. Originally published in 1987. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these

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"The Mediterranean region and Asia provide a natural laboratory to investigate the driving forces of continental tectonics in an ongoing collisional orogen and the crustal and mantle response to various modes of deformation associated with plate boundary processes. The multidisciplinary research efforts in this region over the last fifteen years have produced a wealth of new data to better understand the interplay and feedback mechanisms between crustal and mantle processes and the dynamic landscape evolution in a complexly deforming area. A number of discrete collisional events between the Gondwana-derived continental fragments (i.e., Adria, Pelagonia, Arabia, India) and Eurasia controlled the geodynamics of the Mediterranean region and Asia during the late Mesozoic and Cenozoic. This book is a collection of research papers, presenting new data, interpretations, and syntheses on various aspects of the collision-induced tectonic, magmatic, metamorphic, and geomorphic processes that have affected the evolution of this orogenic belt. It should help us better understand the mode and nature of tectonic and magmatic processes and crustal evolution in active collision zones, and the distribution and causes of seismic and volcanic events and their impact on landscape evolution."--Publisher's website.

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Expert petroleum geologists David Roberts and Albert Bally bring you *Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps*, volume three in a three-volume series covering Phanerozoic regional geology and tectonics. Its key focus is on both volcanic and non-volcanic passive margins, and the importance of salt and shale driven by sedimentary tectonics to their evolution. Recent innovative research on such critical locations as Iberia, Newfoundland, China, and the North Sea are incorporated to provide practical real-world case studies in regional geology and tectonics. The vast amount of volcanic data now available to form accurate hydrocarbon assessments and analysis at passive margin locations is also included into this thorough yet accessible reference. Named a 2013 Outstanding Academic Title by the American Library Association's Choice publication A "how-to" practical reference that discusses the impact of the development of passive margins and cratonic basins on the structural evolution of the Earth in regional geology and tectonic applications. Incorporates the increased availability of industry data to present regional seismic lines and cross-sections, leading to more accurate analysis and assessment of targeted hydrocarbon systems Analyses of passive margins and cratonic basins in

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East Africa, China, Siberia, the Gulf of Suez, and the Laptev Sea in the Russian Arctic provide immediately implementable petroleum exploration applications. Summaries of analogue and theoretical models are provided as an essential backdrop to the structure and stratigraphy of various geological settings.

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