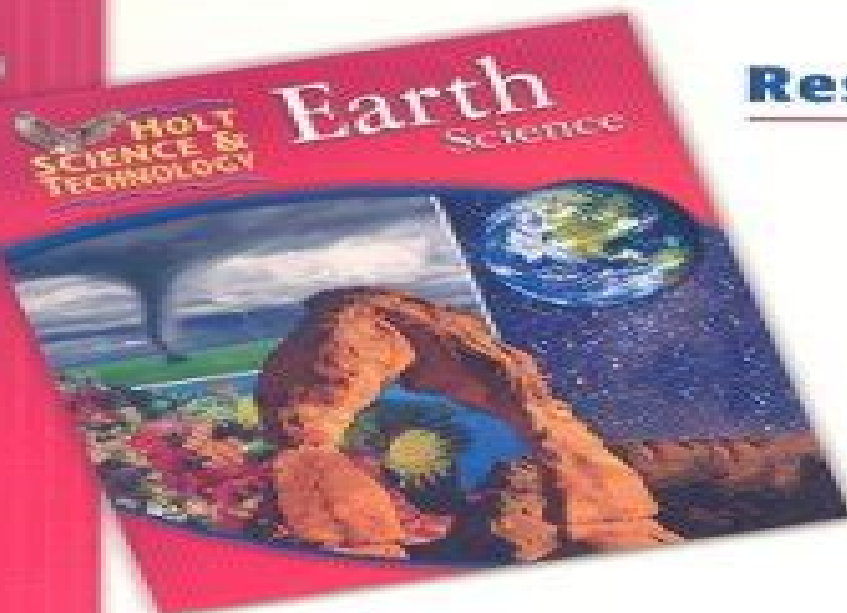


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that presents an example of the Historical Contingency concept which suggested that earlier subduction history may result in supra subduction zone geochemical signatures for some magmas formed in non subduction environments Other chapters highlight the societal significance of geology the petrogenesis of ophiolites subduction zone processes orogenic belt evolution and other topics covering the globe and intersecting with Moores interests and influences *Tectonic Geodynamics* Thorsten Becker, Claudio Faccenna, 2025-11-11 A comprehensive integrative approach to tectonics and geodynamics for students and researchers Over the past half century major achievements have been made in the study of Earth s surface structure and kinematics and the internal dynamics of the lithosphere and mantle Many of these advances have relied on the integration of data and models from plate tectonics and geodynamics yet traditional divisions persist in how these two disciplines are taught and practiced This textbook bridges the gap connecting geophysical and geological approaches to understand the physical processes that shape our planet s evolution from mantle convection to orogeny and earthquakes An innovative approach to the solid Earth system *Tectonic Geodynamics* provides a basis to explore the fundamental connections between the planet s deep interior dynamics and the surface The first textbook to integrate tectonics structural geology geodynamics geodesy and seismology in a single volume Offers a physics focused guide for understanding how the solid Earth system operates Uses a no prerequisites approach supported by an extensive appendix that includes a calculus and linear algebra primer and coverage of key topics such as coordinate systems and spectral analysis Includes a wealth of exercises and end of chapter review questions An ideal textbook for advanced undergraduates and graduate students in geology geophysics and related fields such as physics and engineering Invaluable for self study and as a self contained resource for researchers Supporting materials provided for instructors including an instruction guide full color illustration package and sample syllabi *Extensional Tectonics* Ibrahim Çemen, Elizabeth J. Catlos, 2025-04-15 A synthesis of current knowledge on global extensional tectonics The extension of Earth s lithosphere occurs at divergent plate boundaries as well as in plate interiors The geological geochemical and sedimentary processes of extension offer insights into topics ranging from the fundamentals of tectonics to the evolution of life *Extensional Tectonics* Rifting and Continental Extension reviews present day knowledge of extensional tectonic processes and explores examples from around the world Volume highlights include Overview of extensional tectonic processes from continental rifting to oceanic basin formation In depth examination of extension along rift systems and rift margins Review of post collisional continental extension Examples from Africa Asia Europe and the Americas Insights from observations modeling and 3D seismic data interpretation of extended terrains This book is one of a set of three in the collection *Tectonic Processes A Global View* Browse the first volume *Compressional Tectonics Plate Convergence to Mountain Building* The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals **Regional Geology and Tectonics: Principles of Geologic Analysis** Nicola Scarselli, Jürgen

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