

SEDIMENTARY BASINS OF CONTINENTAL MARGINS AND CRATONS

EDITED BY
M.H.P. BOTT

DEVELOPMENTS IN GEOTECTONICS
12

ELSEVIER

Sedimentary Basins Of Continental Margins And Cratons Developments In Geotectonics 1

Didier Musso



Sedimentary Basins Of Continental Margins And Cratons Developments In Geotectonics 1:

Sedimentary Basins of Continental Margins and Cratons M.H.P. Bott, 2013-10-22 Developments in Geotectonics 12 Sedimentary Basins of Continental Margins and Cratons focuses on the formation movements characteristics and evolution of sedimentary basins of continental margins and cratons The selection first offers information on mechanisms of basin subsidence and rheology of the lithosphere Discussions focus on hypotheses of basin subsidence mechanism testing the hypotheses elastic properties and flexural rigidity of the lithosphere and rheology of young continental margins The text then elaborates on flexure of the lithosphere and continental margin basins and thermal and mechanical evolution of the Michigan basin The book ponders on the formation of sedimentary basins of graben type by extension of the continental crust and major synchronous events in continental shelves Topics include inception of shelf development mid cretaceous change taphrogenic subsidence and energy budget of wedge subsidence mechanism The manuscript also examines development of graben associated with the initial ruptures of the Atlantic Ocean and observations on the processes of sedimentary basin formation at the margins of Southern Africa The selection is a dependable reference for readers interested in the study of continental margins *Collected Reprints* Atlantic Oceanographic and Meteorological Laboratories, 1978 Collected Reprints , 1979 *Geology of the Continental Margins* Gilbert Boillot, 1981 *Historical Geotectonics - Palaeozoic* V.E. Khain, K.B. Seslavinsky, 2021-06-24 Translated from Russian this text looks at the development of the earth's crust in the Palaeozoic period and starts from the Vendian to the Late Cambrian period Moving on to include Ordovician to the mature stage of Caledonian and initial stage of development of Hercynian mobile belts Silurian Early Devonian The completion of development of the Caledonian and early mature and end stages of the Hercynian mobile belts the birth of Cimmerian mobile belts and ending with the Palaeozoic *Journal of Sedimentary Petrology* , 1977 *Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps* David G. Roberts, 2012-05-29 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 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 The Large-wavelength Deformations of the Lithosphere A. M. Celâl ?engör,2003-01-01 Principles of Sedimentary Basin Analysis Andrew D. Miall,2013-06-29 Over the past five years there have been many advances in the field of basin analysis Developments such as the publication of new stratigraphic codes new research in fission track dating evolution of thought regarding the importance of tectonic versus eustatic controls of regional and global cycles and refinements of geophysically based basin subsidence models have necessitated the publication of a second edition of Principles of Sedimentary Basin Analysis Like the first edition this book emphasizes the stratigraphic evidence which geologists can actually see in outcrops well records and core samples and can gather using geophysical techniques Principles of Sedimentary Basin Analysis is both an excellent text for students and a practical handbook for professional geologists **Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps** A.W. Bally,2012-05-31 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 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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