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Advances in Geology of the Porphyry Copper Deposits - Spencer Rowe Titley - 1982

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Petroleum Geology of the North Sea - K. W. Glennie - 2009-06-29
Since the 3rd edition of this publication, emphasis within the petroleum industry has shifted from exploration to appraisal and development of existing hydrocarbon resources. This change is reflected in this new 4th edition, which has been significantly expanded to accomodate additional material. The centrepiece of the book, however, remains a series of descriptions, in stratigraphic order, of the depositional history and hydrocarbon related rock units of the North Sea.

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Advances in Geology - Ajay Kumar Sharma - 1995

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Applied Geochemistry - Athanas S. Macheyeki - 2020-02-14
Applied Geochemistry: Advances in Mineral Exploration Techniques is a book targeting all levels of exploration geologists, geology students and geoscientists working in the mining industry. This reference book covers mineral exploration techniques from multiple dimensions, including the application of statistics - both principal component analysis and factor analysis - to multifractal modeling. The book explains these approaches step-by-step and gives their limitations. In addition to techniques and applications in mineral exploration, Applied Geochemistry describes mineral
predictions of numerical models improves interpretation of geological processes. Further refinements derive from wide-angle comparison of results from various scales of study. In this volume, advances from field, laboratory and modelling approaches to tectonic evolution - from the lithosphere to the rock scale - are compared. Constructive use is made of apparently discrepant or non-consistent results from analytical or methodological approaches in processing field or laboratory data, P-T estimates, absolute or relative age determinations of tectonic events, tectonic unit size in crustal-scale deformation, grain-scale deformation processes, various modelling approaches, and numerical techniques.

Advances in geodynamic modelling critically depend on new insights into grain- and subgrain-scale deformation processes. Conversely, quantitative models help to identify which rheological laws and parameters exert the strongest control on multi-scale deformation up to lithosphere and upper mantle scale.

Unlocking the Stratigraphical Record - Peter Doyle - 1998-03-06
Stratigraphy is the key to understanding the geological evolution of the earth. It provides the framework for our interpretation of the sequences of events which have shaped the earth throughout its 4600 million years of existence. It provides the timescale with which we can determine the relative order of these events, and it provides the means whereby we can calibrate this using absolute ages in years. Stratigraphy is therefore the most fundamental subject in the science of geology, and all geologists are practising stratigraphers. Traditionally, however, stratigraphy has been considered as a Victorian science, a ponderous process of the naming and cataloguing of innumerable geological units most of which are of limited interest outside of a given geographical region. This view has been challenged in recent years through the development of new techniques such as sequence stratigraphy, cyclostratigraphy and chemostratigraphy which have greatly enhanced our capability to interpret earth history. In this book many of the leading practitioners of modern stratigraphy have been gathered together to provide up-to-date and authoritative reviews of most of the important advances in the subject. As such it is the only volume to provide a comprehensive treatment of modern stratigraphy at an advanced undergraduate level.

Recent Advances in Models of Siliciclastic Shallow-marine Stratigraphy - Gary J. Hampson - 2008

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Geology in the Siting of Nuclear Power Plants - Allen W. Hatheway - 1979

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Advances in Reservoir Geology - - 1992
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Recent Advances in the Paleobiology and Geology of the Cnidaria: Proceedings of the Fourth International Symposium on Fossil Cnidaria (and Archaeocyathids and Stromatoporoids) Held in Washington, DC, U. S. An., August, 1983 At a final plenary session of the First Symposium it was agreed that an International Committee should be formed, that a newsletter would be appropriate, and that additional symposia should be held. Officers were elected and these, acting as an organizing committee, appointed a Council to represent countries and institutions that were most active in fossil Cnidaria research. The International Committee on Fossil Cnidaria was subsequently accepted as a working group of the International Palaeontological Association. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.
Recent Advances in Earth System Science - Harsh K. Gupta - 2008

Recent Advances in the Knowledge of Geology, Energy Resources and Metallogenesis of Papua New Guinea Since 1981 - R. Rogerson - 1984

Tectonics of Sedimentary Basins - Cathy Busby - 2011-12-07

Investigating the complex interplay between tectonics and sedimentation is a key endeavor in modern earth science. Many of the world's leading researchers in this field have been brought together in this volume to provide concise overviews of the current state of the subject. The plate tectonic revolution of the 1960's provided the framework for detailed models on the structure of orogens and basins, summarized in a 1995 textbook edited by Busby and Ingersoll. Tectonics of Sedimentary Basins: Recent Advances focuses on key topics or areas where the greatest strides forward have been made, while also providing on-line access to the comprehensive 1995 book. Breakthroughs in new techniques are described in Section 1, including detrital zircon geochronology, cosmogenic nuclide dating, magnetostratigraphy, 3-D seismic, and basin modelling. Section 2 presents the new models for rift, post-rift, transtensional and strike slip basin settings. Section 3 addresses the latest ideas in convergent margin tectonics, including the sedimentary record of subduction initiation and subduction, flat-slab subduction, and arc-continent collision; it then moves inboard to forearc basins and intra-arc basins, and ends with a series of papers formed under compressional strain regimes, as well as post-orogenic intramontane basins. Section 4 examines the origin of plate interior basins, and the sedimentary record of supercontinent formation. This book is required reading for any advanced student or professional interested in sedimentology, plate tectonics, or petroleum geoscience. Additional resources for this book can be found at:

Symposium on Advances in Geology, Geochemistry, and Treatment of Bauxite - Symposium on Advances in Geology, Geochemistry, and Treatment of Bauxite - 1976

Advances in Earth Science - P R Sammonds - 2007-06-21
Advances in Earth Science outlines the latest developments and new research directions currently being made world-wide in the earth sciences. It contains invited and refereed articles by leading younger researchers on their cutting-edge research, but aimed at a general scientific audience. This exciting volume explains how powerful methodologies such as satellite remote sensing and supercomputing simulations are now profoundly changing research in the earth sciences; how the earth system is increasingly being viewed in a holistic way, linking the atmosphere, ocean and solid earth; and how the societal impact of the research in the earth sciences has never been more important. Published by Imperial College Press in collaboration with the Royal Society of London, the book features many articles originating from invited papers published in the Philosophical Transactions of the Royal Society. Eleven of the distinguished contributors hold prestigious Royal Society Research Fellowships.


Readership: General scientific readers interested in the new research directions in the earth sciences; researchers and students in the earth and environmental sciences, geophysics, environmental chemistry, biology and evolution.

Keywords: Climate Change; Environmental Change; Earth Dynamics
This book describes the development of ocean sciences over the past 50 years, highlighting the contributions of the National Science Foundation (NSF) to the field's progress. Many of the individuals who participated in the exciting discoveries in biological oceanography, chemical oceanography, physical oceanography, and marine geology and geophysics describe in the book how the discoveries were made possible by combinations of insightful individuals, new technology, and in some cases, serendipity. In addition to describing the advance of ocean science, the book examines the institutional structures and technology that made the advances possible and presents visions of the field’s future. This book is the first-ever documentation of the history of NSF’s Division of Ocean Sciences, how the structure of the division evolved to its present form, and the individuals who have been responsible for ocean sciences at NSF as “rotators” and career staff over the past 50 years.

A Vision for NSF Earth Sciences 2020-2030 - National Academies of Sciences, Engineering, and Medicine - 2020-08-31

The Earth system functions and connects in unexpected ways - from the microscopic interactions of bacteria and rocks to the macro-scale processes that build and erode mountains and regulate Earth's climate. Efforts to study Earth's intertwined processes are made even more pertinent and urgent by the need to understand how the Earth can continue to sustain both civilization and the planet's biodiversity. A Vision for NSF Earth Sciences 2020-2030: Earth in Time provides recommendations to help the National Science Foundation plan and support the next decade of Earth science research, focusing on research priorities, infrastructure and facilities, and partnerships. This report presents a compelling and vibrant vision of the future of Earth science research.

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**Advances in Carbonate Exploration and Reservoir Analysis** - J. Garland - 2012

Carbonate reservoirs contain an increasingly important percentage of the world’s hydrocarbon reserves. This volume presents key recent advances in carbonate exploration and reservoir analysis.


This book presents the latest advances in mapping the geological structures and modeling the geodynamical and petrological processes in the Hoggar shield and adjacent areas of the northeast West African Craton, which is home to the oldest rocks in Algeria. Its respective chapters discuss the structural geology, geophysical methods, igneous processes, metamorphic petrology, and metallogeny. The mapping and modeling are conducted based on satellite data and Scanning Electron Microscopy (SEM). Hence, the mapping ranges from continental to crystalline scale; the ages range from 3.2 Ga to the recent Cenozoic. The various types of software used are commercial and open source (partially developed by the authors). Gathering papers by respected experts in the methods applied and the Algerian Precambrian domain, the book offers a valuable reference guide to (1) various mapping and modeling methodologies and (2) the geological and geophysical description of the Hoggar shield and the northeast West African Craton.

**Advances in Planetary Geology** - John A. Grant - 1987

**Advances in Engineering Geology** - Bing Xu - 1996


**Earth’s Oldest Rocks** - Martin J. van Kranendonk - 2007-10-26

Earth’s Oldest Rocks provides a comprehensive overview of all aspects of early Earth, from planetary accretion through to development of...
Advances in Carlin Deposits of Northern Nevada - Gregg Loptien - 2010

Earth's Deep History - Martin J. S. Rudwick - 2016-11-03
Mammoths and dinosaurs, tropical forests in northern Europe and North America, worldwide ice ages, continents colliding and splitting apart, comets and asteroids crashing catastrophically onto the Earth these are just some of the surprising features of the eventful history of our planet, stretched out over several billion years. But how was it all discovered, how was the evidence for the Earth's long history collected and interpreted, and what sorts of people put together this reconstruction of a deep past that no human beings could ever have witnessed? In “Earth's Deep History,” Martin J. S. Rudwick tells the gripping story of the gradual realization that the Earth's history has not only been unimaginably long but also astonishingly eventful in utterly unexpected ways. Rudwick, the world's premier historian of the Earth sciences, is the first to make the story of the discovery of the Earth's deep history attractively accessible to readers without prior knowledge of either the history or the science, and in so doing he reveals why it matters to us today.

Earth's Oldest Rocks - Martin J. van Kranendonk - 2007-10-26
Earth's Oldest Rocks provides a comprehensive overview of all aspects of early Earth, from planetary accretion through to development of protocratons with depleted lithospheric keels by c. 3.2 Ga, in a series of papers written by over 50 of the world's leading experts. The book is divided into two chapters on early Earth history, ten chapters on the geology of specific cratons, and two chapters on early Earth analogues and the tectonic framework of early Earth. Individual contributions address topics that range from planetary accretion, a review of Earth meteorites, significance and composition of Hadean protocrust, composition of Archaean mantle and deep crust, all aspects of the geology of Paleoarchean cratons, composition of Archean oceans and hydrothermal environments, evidence and geological settings of early life, early Earth analogues from Venus and New Zealand, and a tectonic framework for early Earth. * Contains comprehensive reviews of areas of ancient lithosphere on Earth, of planetary accretion processes, and of meteorites * Focuses on specific aspects of early Earth, including oldest putative life forms, evidence of the composition of the ancient atmosphere-hydrosphere, and the oldest evidence for subduction-accretion * Presents an overview of geological processes and model of the tectonic framework on early Earth
Advances in the Study of Fractured Reservoirs - G.H. Spence - 2014-08-27
Naturally fractured reservoirs constitute a substantial percentage of remaining hydrocarbon resources; they create exploration targets in otherwise impermeable rocks, including under-explored crystalline basement; and they can be used as geological stores for anthropogenic carbon dioxide. Their complex behaviour during production has traditionally proved difficult to predict, causing a large degree of uncertainty in reservoir development. The applied study of naturally fractured reservoirs seeks to constrain this uncertainty by developing new understanding, and is necessarily a broad, integrated, interdisciplinary topic. This book addresses some of the challenges and advances in knowledge, approaches, concepts, and methods used to characterize the interplay of rock matrix and fracture networks, relevant to fluid flow and hydrocarbon recovery. Topics include: describing, characterizing and identifying controls on fracture networks from outcrops, cores, geophysical data, digital and numerical models; geomechanical influences on reservoir behaviour; numerical modelling and simulation of fluid flow; and case studies of the exploration and development of carbonate, siliciclastic and metamorphic naturally fractured reservoirs.

Physical Geology of Shallow Magmatic Systems - Christoph Breitkreuz - 2018-03-23
This book offers a high-level summary of shallow magmatic systems (dykes, sills and laccoliths) to support geoscience master and PhD students, scientists and practicing professionals. The product of the LASI (Laccoliths and Sills conference) workshop, it comprises thematic sections written by one or more experts on the respective field. It features reviews concerning the physical properties of magma, geotectonic settings, and the structure of subvolcanic systems, as well as case studies on the best-known systems. The book provides readers a broad and comprehensive understanding of the subvolcanic perspective on pluton growth, which is relevant for mineralogical processes as well as the genesis of mineral deposits.

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section on fluid inclusions, expansion of the section on wall rock alteration, geomechanical influences on reservoir behaviour; numerical modelling and simulation of fluid flow; and case studies of the exploration and development of carbonate, siliciclastic and metamorphic naturally fractured reservoirs.

Ore Geology and Industrial Minerals - Anthony M. Evans - 2009-07-10
Much new data and many new ideas have emerged in the area of oregeology and industrial minerals since publication of the secondedtion of this text in 1987. The overriding philosophy behind thisnew edition is the inclusion and integration of this new material within the established framework of the text. The third edition is re-presented in the modern double-column format. Non-metallic deposits of industrial and bulk materials are fully covered to meet the changing emphasis of courses in applied geology. In addition, chapter 1 has been considerably enlarged to include a section on mineral economics covering metals, industrial minerals and bulk materials. In this section, the various aspects of economic exploitation of industrial and bulk materials are compared with those of metallic deposits. Other major revisions and additions include a section on fluid inclusions, expansion of the section on wall rock alteration, expansion of the material on isotope studies, and the inclusion of a section on hydraulic fracturing and seismic pumping.

Ore Geology and Industrial Minerals - Anthony M. Evans - 2009-07-10
Much new data and many new ideas have emerged in the area of oregeology and industrial minerals since publication of the second edition of this text in 1987. The overriding philosophy behind this new edition is the inclusion and integration of this new material within the established framework of the text. The third edition is re-presented in the modern double-column format. Non-metallic deposits of industrial and bulk materials are fully covered to meet the changing emphasis of courses in applied geology. In addition, chapter 1 has been considerably enlarged to include a section on mineral economics covering metals, industrial minerals and bulk materials. In this section, the various aspects of economic exploitation of industrial and bulk materials are compared with those of metallic deposits. Other major revisions and additions include a section on fluid inclusions, expansion of the section on wall rock alteration, expansion of the material on isotope studies, and the inclusion of a section on hydraulic fracturing and seismic pumping.

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Considered Advances in Marine Geology and Oceanography - Roger Henri Charlier - 1958

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The 5th International Conference on Medical Geology and the 2nd Symposium on Advances in Geospatial Technologies for Health, 25-29 August 2013, Arlington, Virgina - International conference on medical geology - 2013

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Advances in Geophysics - - 2002-08-21
Advances in Geophysics Volume 45 presents two main topics of noted interest to the geophysical community. The first topic is ice particles in the atmosphere. Mathematical descriptions of ice particle shapes, their growth rates, and their influence on cloud development are presented. The second topic is earthquakes and seismological mapping. The authors present their research involving predicting the location and intensity of earthquakes.

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