

BASIN ANALYSIS

Principles and Applications



Philip A. Allen and John R. Allen

SECOND EDITION



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Basin Analysis Principles And Applications

**Karsten Piepjohn, Justin V.
Strauss, Lutz Reinhardt, William C.
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Basin Analysis Philip A. Allen, John R. Allen, 2013-05-30 Basin Analysis is an advanced undergraduate and postgraduate text aimed at understanding sedimentary basins as geodynamic entities The rationale of the book is that knowledge of the basic principles of the thermo mechanical behaviour of the lithosphere the dynamics of the mantle and the functioning of sediment routing systems provides a sound background for studying sedimentary basins and is a pre requisite for the exploitation of resources contained in their sedimentary rocks The third edition incorporates new developments in the burgeoning field of basin analysis while retaining the successful structure and overall philosophy of the first two editions The text is divided into 4 parts that establish the geodynamical environment for sedimentary basins and the physical state of the lithosphere followed by a coverage of the mechanics of basin formation an integrated analysis of the controls on the basin fill and its burial and thermal history and concludes with an application of basin analysis principles in petroleum play assessment including a discussion of unconventional hydrocarbon plays The text is richly supplemented by Appendices providing mathematical derivations of a wide range of processes affecting the formation of basins and their sedimentary fills Many of these Appendices include practical exercises that give the reader hands on experience of quantitative solutions to important basin analysis processes Now in full colour and a larger format this third edition is a comprehensive update and expansion of the previous editions and represents a rigorous yet accessible guide to problem solving in this most integrative of geoscientific disciplines Additional resources for this book can be found at www.wiley.com/go/allen/basinanalysis

[Basin Analysis](#) ,2005 **Basin Analysis** P. A. Allen, John R. Allen, 1992 **Basin Analysis** P.A. Allen, R.L. Allen, 2002 *Basin Analysis* L. F. Jansa, Pierre Félix Buroillet, A. C. Grant, 1984 **Basin Analysis, Global Sedimentary Geology and Sedimentology** Baojun Liu, Li Sitian, 1997-05 The 30th International Geological

Congress was held in Beijing China in August 1997 Leading scientists convened to present their findings and views to the international geological research community Volume 8 of 26 focuses on basin analysis global sedimentary geology and sedimentology All articles in the proceedings have been refereed and keynote papers have been included in Volume 1 These proceedings aim to present a view of contemporary geology and should be of interest to researchers in the geological sciences *Geothermics in Basin Analysis* Andrea Förster, Daniel F. Merriam, 2012-12-06 Geothermics in Basin Analysis focuses on the study of sedimentary basins stressing essential parts of problems in which geothermics is involved Subject matter includes the measuring of temperature logs and capturing of industrial temperature data and their interpretation to delineate subsurface conditions and processes the importance of porosity and pore filling for modeling thermal fields the thermal insulation of shales geothermal anomalies associated with mud diapirs and basin hydrodynamic regimes temperatures related to magmatic underplating and plate tectonics **Causes and Consequences of Globally Warm**

Climates in the Early Paleogene Scott L. Wing, 2003-01-01 Review of Basin analysis D.I.M. Macdonald, 1994

Dynamics and Methods of Study of Sedimentary Basins Association des sédimentologues français, 1998 This book contains 21 contributions each written by an expert in the area of sedimentary basins The first part of the book is devoted to the methodology used for these studies in particular physical measurements well logging and seismic and synthesis of subsurface data The second part presents specific cases each corresponding to a particular type of basin Elements of Petroleum Geology Richard C. Selley, 1998 This third edition of Elements of Petroleum Geology is completely updated and revised to reflect the vast changes in the years since publication of the First Edition This book is a useful primer for geophysicists geologists and petroleum engineers in the oil industry who wish to expand their knowledge beyond their specialized area It is also an excellent introductory text for a university course in petroleum geoscience Elements of Petroleum Geology begins with an account of the physical and chemical properties of petroleum reviewing methods of petroleum exploration and production These methods include drilling geophysical exploration techniques wireline logging and subsurface geological mapping After describing the temperatures and pressures of the subsurface environment and the hydrodynamics of connate fluids Selley examines the generation and migration of petroleum reservoir rocks and trapping mechanisms and the habit of petroleum in sedimentary basins The book contains an account of the composition and formation of tar sands and oil shales and concludes with a brief review of prospect risk analysis reserve estimation and other economic topics Updates the first edition completely Reviews the concepts and methodology of petroleum exploration and production Written by a preeminent petroleum geologist and sedimentologist with 30 years of petroleum exploration in remote corners of the world Contains information pertinent to geophysicists geologists and petroleum reservoir engineers

Petrology of Sedimentary Rocks Sam Boggs, Jr, 2009-02-19 This textbook outlines the physical chemical and biologic properties of the major sedimentary rocks as revealed by petrographic microscopy geochemical techniques and field study It

covers the mineralogy chemistry textures and sedimentary structures that characterise sedimentary rocks and relates these features to the depositional origin of the rocks and their subsequent alteration by diagenetic processes during burial In addition to detailed sections on siliciclastic and carbonate rocks it also discusses evaporites cherts iron rich sedimentary rocks phosphorites and carbonaceous sedimentary rocks such as oil shales This second edition maintains the comprehensive treatment of sedimentary petrography and petrology provided in the first edition and has been updated with new concepts and cutting edge techniques like cathodoluminescence imaging of sedimentary rocks and backscattered electron microscopy It is ideal for advanced undergraduate and graduate courses in sedimentary petrology and is a key reference for researchers and professional petroleum geoscientists

Circum-Arctic Structural Events Karsten Piepjohn, Justin V. Strauss, Lutz Reinhardt, William C. McClelland, 2019-05-23 To recognize the 25th anniversary of the Circum Arctic Structural Events program an effort organized by the Bundesanstalt für Geowissenschaften und Rohstoffe this volume presents results from 18 major field expeditions involving 100 geoscientists from a spectrum of disciplines The volume focuses on the Proterozoic to Cenozoic tectonic evolution of the circum Arctic region with correlations to adjacent orogens

Tectonic Controls and Signatures in Sedimentary Successions Lynne E. Frostick, 2009-04-13 Stratigraphers and sedimentologists who are presently describing and interpreting the infill of sedimentary basins are generally agreed that it is difficult to disentangle the signatures of tectonic processes from those of climate and eustatic sea level change in the resultant rock succession Until better criteria are developed to distinguish between the roles played by the major variables it is still most useful to document and interpret basin fill architectures where we know from independent evidence that one of the main controls is likely to have been a major contributor This book contains a collection of papers describing situations where the tectonic setting is fairly well established and it can be assumed that at least the tectonic factor has contributed to the resultant signatures

Structure and Diagenesis in Upper Carboniferous Tight Gas Reservoirs in NW Germany Wuestefeld, Patrick, 2018-03-02 Upper Carboniferous sandstones are important tight gas reservoirs in Central Europe This field based study conducted in a km scale reservoir outcrop analog Piesberg quarry Lower Saxony Basin NW Germany focused on the diagenetic control on spatial reservoir quality distribution Geothermometers were used to characterize a fault related thermal anomaly A prototype workflow based on terrestrial laser scanning is presented which allowed for the automated detection and analysis of fractures

Springer Handbook of Petroleum Technology Chang Samuel Hsu, Paul R. Robinson, 2017-12-20 This handbook provides a comprehensive but concise reference resource for the vast field of petroleum technology Built on the successful book Practical Advances in Petroleum Processing published in 2006 it has been extensively revised and expanded to include upstream technologies The book is divided into four parts The first part on petroleum characterization offers an in depth review of the chemical composition and physical properties of petroleum which determine the possible uses and the quality of the products The second part provides a brief overview of petroleum geology and upstream practices The third part

exhaustively discusses established and emerging refining technologies from a practical perspective while the final part describes the production of various refining products including fuels and lubricants as well as petrochemicals such as olefins and polymers. It also covers process automation and real time refinery wide process optimization. Two key chapters provide an integrated view of petroleum technology including environmental and safety issues. Written by international experts from academia, industry and research institutions including integrated oil companies, catalyst suppliers, licensors and consultants, it is an invaluable resource for researchers and graduate students as well as practitioners and professionals.

The Geology of Stratigraphic Sequences Andrew D. Miall, 2013-06-29 Sequence stratigraphy represents a new paradigm in geology. The principal hypothesis is that stratigraphic successions may be subdivided into discrete sequences bounded by widespread unconformities. There are two parts to this hypothesis. First, it suggests that the driving forces which generate sequences and their bounding unconformities also generate predictable three-dimensional stratigraphies. In recent years, stratigraphic research guided by sequence models has brought about fundamental improvements in our understanding of stratigraphic processes and the controls of basin architecture. Sequence models have provided a powerful framework for mapping and numerical modeling, enabling the science of stratigraphy to advance with rapid strides. This research has demonstrated the importance of a wide range of processes for the generation of cyclic sequences including eustasy, tectonics and orbital forcing of climate change. The main objective of this book is to document the sequence record and to discuss our current state of knowledge about sequence generating processes.

Fold and Thrust Belts J.A. Hammerstein, R. Di Cuia, M.A. Cottam, G. Zamora, R.W.H. Butler, 2020-10-14 The outer parts of collision mountain belts are commonly represented by fold and thrust belts. Major advances in understanding these tectonic settings have arisen from regional studies that integrate diverse geological information in quests to find and produce hydrocarbons. Drilling has provided tests of subsurface forecasts, challenging interpretation strategies and structural models. This volume contains 19 papers that illustrate a diversity of methods and approaches together with case studies from Europe, the Middle East and the Asia Pacific region. Collectively, they show that appreciating diversity is key for developing better interpretations of complex geological structures in the subsurface endeavours that span applications beyond the development of hydrocarbons.

Petroleum Sedimentology Winfried Zimmerle, H. Zimmerle, 1995-04-30 Knowledge of the principles and methods of petroleum sedimentology is essential for oil and gas exploration and exploitation. This book is designed as an introductory text for students in petroleum geology and applied sedimentology as well as a useful companion for advanced technicians, explorationists, geophysicists and petroleum engineers. Source rock lithology and type of trap define the quality of a hydrocarbon accumulation. This interrelationship is exemplified by seven case histories worldwide: NW Europe, Saudi Arabia, U.S.A., Mexico, CIS, China. Moreover, successful exploitation and enhanced oil recovery often depend on an adequate knowledge of the sedimentology of a reservoir. Photographs illustrate macroscopic and microscopic aspects of source rocks as well as reservoir sandstones and

limestones that are most important for hydrocarbon exploration A comprehensive list of references encourages further study

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