



# Physical Principles of **Sedimentary Basin Analysis**

**MAGNUS WANGEN**

# Principles Of Sedimentary Basin Analysis

**Gerhard Einsele**



## **Principles Of Sedimentary Basin Analysis:**

**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.

*Principles of Sedimentary Basin Analysis* Andrew D. Miall, 2013-03-09 Review of the second edition For geologists and geophysicists studying sedimentary fill of basins, this volume is a valuable addition to their shelves. The book is packed with information, includes numerous lists of references, and is up to date. As a source volume, this book is second to none. It is clear and well organized. **GEOPHYSICS Basin Analysis** Philip A. Allen, John R. Allen, 2013-05-28 Basin Analysis is an up to date overview of the essential processes of the formation and evolution of sedimentary basins and their implications for the development of hydrocarbon resources. The new edition features: A consideration of the fundamental physical state of the lithosphere; A discussion on the major types of lithospheric deformation relevant to basin development, stretching and flexure; A new chapter on the effects of mantle dynamics; Radically revised chapters on the basin fill; A new chapter on the erosional engine for sediment delivery to basins, reflecting the massive and exciting advances in this area in the last decade; Expansion of the techniques used in approaching problems in basin analysis; Updated chapters on subsidence analysis and measurements of thermal maturity of organic and non organic components of the basin fill; New material on thermochronological and exposure dating tools; Inclusion of the important petroleum system concept in the updated section on the application to the petroleum play. Visit [www.blackwellpublishing.com/allen](http://www.blackwellpublishing.com/allen) for practical exercises related to problems in Basin Analysis 2e. To run the programs, you will need a copy of Matlab 6 or 7. An Instructor manual CD ROM for this title is available. Please contact our Higher Education team at [HigherEducation@wiley.com](mailto:HigherEducation@wiley.com) for more information. [Physical Principles of Sedimentary Basin Analysis](#) Magnus Wangen, 2010-01-14 A user friendly, thorough introduction to quantitative modelling of sedimentary basins, illustrated throughout with real world examples, applications, and test exercises.

**Principles of Sedimentary Basin Analysis** Andrew Miall, 2014-01-15 **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](http://www.wiley.com/go/allen/basinanalysis) The Sedimentary Basins of the United States and Canada Andrew Miall, 2008-12-03 In recent years there have been rapid strides in our understanding of plate tectonic processes many developments in methods of basin analysis and the accumulation of much new surface and subsurface geological and geophysical data Projects such as COCORP in the United States and Lithoprobe in Canada have provided essential insights into the deep crustal structure of the continent Synthesis of all the available information about North America's geological regions has not been attempted systematically since the Decade of North American Geology project undertaken by the Geological Society of America and the Geological Survey of Canada nearly twenty years ago The book commences with a summary of the Phanerozoic geological history of the United States and Canada illustrated with a suite of new paleogeographic maps and tying in each of the subsequent regional chapters by the inclusion of numerous cross references This followed by a set of fifteen regional syntheses of the principal tectonic regions of the United States and Canada focusing on the stratigraphic and tectonic history of the major sedimentary basins Most of these chapters have been contributed by specialists drawing on their own research and providing interpretive summaries of a type not previously attempted Up to date synthesis of the sedimentary tectonic history of the major areas of the United States and Canada Up to date references Many new color maps Basin Analysis, 2005 **Sedimentology and Stratigraphy** Gary Nichols, 2013-04-30 This fully revised and updated edition introduces the reader to sedimentology and stratigraphic principles and provides tools for the interpretation of sediments and sedimentary rocks The processes of formation transport and deposition of sediment are considered and then applied to develop conceptual models for the full range of sedimentary environments from deserts to deep seas and reefs to rivers Different approaches to using stratigraphic principles to date and correlate strata are also considered in order to provide a comprehensive introduction to all aspects of sedimentology and stratigraphy The text and figures are designed to be accessible to anyone completely new to the subject and all of the

illustrative material is provided in an accompanying CD ROM High resolution versions of these images can also be downloaded from the companion website for this book at [www.wiley.com/go/nicholssedimentology](http://www.wiley.com/go/nicholssedimentology)

*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

**Basin Analysis** P.A. Allen, R.L. Allen, 2002 *New Perspectives in Basin Analysis* Karen L. Kleinspehn, Chris Paola, 2012-12-06 In the extensive field of earth sciences with its many subdisciplines the transfer of knowledge is primarily established via personal communication during meetings by reading journal articles or by consulting books Because more information is available than can be assimilated it is necessary for the individual to search selectively Books take more time from the inception of an idea until publication than any of the other means of communication mentioned As a consequence their function is somewhat different Many good books are a compilation of up to date knowledge and serve as reference or instruction manuals Some books are a collection of previously published papers dealing with a certain topic while others may basically provide large sets of data or examples The Frontiers in Sedimentary Geology series was established both for students and practicing earth scientists who wish to either stay abreast of the most recent ideas or developments or to become familiar with an important topic in the field of sedimentary geology The series attempts to deal with subjects that are in the forefront of both scientific and economic interest The treatment of a subject in an individual volume should be a combination of topical regional and interdisciplinary approaches Although these three terms can be defined separately in reality they should flow into each other A topical treatment should relate to a major category of sedimentary geology

**Petrology of Sedimentary Rocks** Sam Boggs, 2009-02-19 Advanced textbook outlining the physical chemical and biological properties of sedimentary rocks through petrographic microscopy geochemical techniques and field study *Introduction to Sedimentology* Supriya Sengupta, 2017-10-05 A concise account of all major branches of sedimentary geology highlighting the connecting links between them Introduction Processes of sedimentation Sedimentary texture Sedimentary petrology Hydraulics sediment transportation and structures of mechanical origin Sedimentary environments and facies Tectonics and sedimentation Stratigraphy and sedimentation Basin analysis A synthesis References Index

**Facies Analysis and Interpretation in Southeastern Nigeria's Inland Basins** Chidozie Izuchukwu Princeton Dim, 2021-02-05 This book broadens the reader's knowledge base on lithofacies distribution facies succession and association and interpretation of paleo depositional environments using outcrop based and measured sedimentologic section data integrated with facies and petrographic analyses Besides the author also provides step by step workflow that could guide detailed geological field

mapping and improve outcrop studies across Middle Upper Cretaceous Cenomanian Campanian successions of Southern Benue Trough and the lower stratigraphic interval of Anambra Basin outcropping in Afikpo area of Southeastern Nigeria

Salt in the Earth Sciences Webster Mohriak, 2025-08-12 A comprehensive review of salt deposition in sedimentary environments worldwide Salt is formed when water rich in evaporite minerals accumulates on the Earth's surface and then evaporates Over time pressure and tectonics change the structure and shape of salt layers Recent technological advances have improved the interpretation and modeling of subsurface salt structures Salt in the Earth Sciences Evaporite Rocks and Salt Deposition presents a global overview of salt deposition and deformation in sedimentary basins synthesizing data analysis observations theories and modeling Volume highlights include Overview of salt use by humans from prehistoric times to the modern industrial world Chemical and physical principles of evaporite deposition in sedimentary basins Effects of gravity and tectonic forces on rock salt deformation Development of salt structures in orogenic belts and deep basins Seismic interpretation methods for identification of subsurface salt structures Key sedimentological models for evaporite deposition in continental and marine environments Global examples ranging from modern hypersaline rift lakes to ancient marine salt basins Browse the other volume in this set Salt in the Earth Sciences Basin Analysis and Salt Tectonics 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 *Stratigraphy: A Modern Synthesis* Andrew D. Miall, 2022-03-02 The updated textbook is intended to serve as an advanced and detailed treatment of the evolution of the subject of stratigraphy from its disparate beginnings as separate studies of sedimentology lithostratigraphy chronostratigraphy etc into a modern integrated discipline in which all components are necessary There is a historical introduction which now includes information about the timeline of the evolution of the components of modern stratigraphy The elements of the various components facies analysis sequence stratigraphy mapping methods chronostratigraphic methods etc are outlined and a chapter discussing the modern synthesis is included near the end of the book which closes with a discussion of future research trends in the study of time as preserved in the stratigraphic record

*Seismic Geology and Basin Analysis* Changsong Lin, 2024-06-23 Seismic Geology and Basin Analysis Case Studies on Sedimentary Basins in China introduces the principles approaches and techniques needed to solve problems using seismic data calibrated with well log cores and outcrop profiles The book emphasizes the adoption of seismic techniques into basin analysis and broadens the usage of seismic data in geological research which may be referred to as seismic geology The principle of the book is mainly summarized from a series of case studies in different basins in China In addition through this book readers can understand the primary characteristics and basin fill evolution of major petroleum basins around the world When starting research on a basin researchers and professionals are confronted with how to reveal the general architecture of basin fills and depict three dimensional geometry and the internal architecture of subsurface depositional bodies and their

arrangement hence this book is a great tome on necessary areas of exploration Examines the adoption of seismic techniques into basin analysis and broadens the usage of seismic data in geological research Includes seismic well log core and outcrop data as well as high resolution 3D seismic profiles and slices Features case studies to further illustrate principles and approaches described in the book which can be applied to similar basins around the world      **Sedimentary Basins** Gerhard Einsele, 2013-06-29 The modern geological sciences are characterized by extraordinarily rapid progress as well as by the development and application of numerous new and refined methods most of them handling an enormous amount of data available from all the continents and oceans Given this state of affairs it seems inevitable that many students and professionals tend to become experts in relatively narrow fields and thereby are in danger of losing a broad view of current knowledge The abundance of new books and symposium volumes testifies to this trend toward specialization However many geologic processes are complex and result from the interaction of many seemingly unrelated individual factors This signifies that we still need generalists who have the broad overview and are able to evaluate the great variety of factors and processes controlling a geologic system such as a sedimentary basin In addition this also means that cooperation with other disciplines in the natural sciences and engineering is increasingly important Modern text books providing this broad overview of the earth sciences are rare      **Sedimentary Basin Analysis of the Continental Devonian Basin in North-East Greenland** Henrik Olsen, 1993

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