Principles Of Sedimentology And Stratigraphy

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Principles Of Sedimentology And Stratigraphy - Sam Boggs 1995
Aimed at advanced undergraduates but suitable also for graduate students and professionals, it covers processes of sedimentation, describes the characteristics of sedimentary rocks formed in major sedimentary environments, and discusses the fundamental principles of stratigraphy and basin analysis, including recent developments in the important fields of magnetostratigraphy, seismic stratigraphy, sequence stratigraphy, isotope stratigraphy, and sea-level analysis. The book presents divergent views on controversial topics and is extensively referenced and up-to-date thus encouraging students to refer to recently published literature.

Sedimentology and Sedimentary Basins - Mike R. Leeder 2009-04-01
Sedimentology is a core discipline of earth and environmental sciences. It enquires the origins, transport and deposition of mineral sediment on the Earth's surface. The subject is a link between positive effects arising from the building of relief by tectonics and the negative action of denudation in drainage catchments and tectonic subsidence in sedimentary basins. The author addresses the principles of the subject, emphasising the advantages of a general science approach and the importance of understanding modern processes. Sedimentology and Sedimentary Basins is not an encyclopaedia, but attempts to stimulate interdisciplinary thought across the whole subject area and related disciplines. The book has been designed to meet the needs of earth and environmental science undergraduates.

Petroleum Sedimentology - Winfried 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.

Outlines and Highlights for Principles of Sedimentology and Stratigraphy by Sam Boggs Jr , Isbn - Cram101 Textbook Reviews 2009-12
Never HIGHLIGHT a Book Again! Virtually all testable terms, concepts, persons, places, and events are included. Cram101 Textbook Outlines gives all of the outlines, highlights, notes for your textbook with optional online practice tests. Only Cram101 Outlines are Textbook Specific. Cram101 IS NOT the Textbook.
Accompany: 9780131547285
Principles of Sedimentology and Stratigraphy - Sam Jr Boggs 2013-07-14
This concise treatment of the fundamental principles of sedimentology and stratigraphy highlights the important physical, chemical, biological and stratigraphic characteristics of sedimentary rocks. It emphasizes the ways in which the study of sedimentary rocks is used to interpret depositional environments, changes in ancient sea level, and other intriguing aspects of Earth's history.
Principles of Sequence Stratigraphy - Octavian Catuneanu 2006-05-19
Principles of Sequence Stratigraphy provides an in-depth coverage and impartial assessment of all current ideas and models in the field of sequence stratigraphy. This textbook thoroughly develops fundamental concepts of sequence stratigraphy that links base-level changes to sedimentary deposits. It examines differing approaches to how the sequence stratigraphic method can be applied to the rock record, and reviews practical applications such as how petroleum geologists can target where to drill for oil. The book's balanced approach helps students acquire a common terminology and conceptual understanding that will be helpful later in their academic and professional careers, whether they pursue jobs as geologists, geophysicists, or reservoir engineers. This textbook offers theoretical guidelines of how the facies and time relationships are expected to be under specific circumstances such as subsidence patterns, sediment supply, topographic gradients, etc. It goes beyond the standard treatment of sequence stratigraphy by focusing on a more user-friendly and flexible method of analysis of the sedimentary rock record than other current methods. The text is richly illustrated with dozens of full color photographs and original illustrations of outcrop, core, well log, and 3D seismic data. There is a dedicated chapter on discussions and conclusions, along with an instructor site containing images from the book. Principles of Sequence Stratigraphy will appeal to researchers and professionals, as well as upper graduate and graduate students in stratigraphy, sedimentology, petroleum geology and engineering, economic geology, coal geology, seismic exploration, Precambrian geology, and mining geology and engineering. * Offers theoretical guidelines of how the facies and time relationships are expected to be under specific circumstances such as subsidence patterns, sediment supply, topographic gradients, etc. * Contains numerous high-quality and full-color diagrams, photographs and illustrations, virtually on every aid in comprehension of the subject. * Features a dedicated chapter on discussions and conclusions incorporating all previous chapters with references, basic principles and strategies * Provides an extensive list of references for further reading, as well as an author and subject index for quick information access

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.

Basics of Physical Stratigraphy and Sedimentology - William J. Fritz 1988-02-12
This concise volume offers one of the few modern treatments of stratigraphy and sedimentology, featuring the use of the stratigraphic code and an analysis of the history of geology in the development of stratigraphic
principles. Covers important processes that form sedimentary rocks, explains the interpretation of rock sequences from outcrop scale to regional stratigraphic packages, and synthesizes rock and sedimentary structure classification schemes. Presents the basic tools for interpreting sedimentary structures using a process-approach to physical sedimentology, and reveals stratigraphic relationships not found in other texts. The text contains many illustrations, which provide compilations of standard classifications, hydrodynamic principles, and processes of sedimentation recast in an easily understandable format.

**Principles of Stratigraphy** - Michael E. Brookfield 2008-04-15

Principles of Stratigraphy reaffirms the vital importance of stratigraphy to the earth sciences, and introduces the undergraduate to its key elements in a lively and interesting fashion. First recent text devoted to stratigraphic principles and applications. Contains details of the latest stratigraphic techniques. Includes numerous case studies and real-world examples. An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at HigherEducation@wiley.com for more information.

**Sedimentary Structures** - John David Collinson 1989-01-01

Principles of Sequence Stratigraphy - Octavian Catuneanu 2022-07-22

Principles of Sequence Stratigraphy, Second Edition presents principles to practical workflow that guide applications in a consistent manner that is independent of model, geological setting and the types and resolution of the data available. The book explains the points of agreement and difference between the various approaches to sequence stratigraphy, while also defining the common ground that affords the standard application of the method. This enables the practitioner to avoid nomenclatural and methodological confusions and apply sequence stratigraphy. The text is richly illustrated with hundreds of full-color diagrams and examples of outcrop, borehole and seismic data. The book’s balanced approach helps students and professionals acquire a sound understanding of the concepts and methodology. It will appeal to geologists, geophysicists and engineers with interest in basin analysis, stratigraphy and sedimentology, as well as in all economic applications that concern the exploration and production of natural resources, including water, hydrocarbons, coal and sediment-hosted mineral deposits. Updates the award-winning first edition in all aspects of sequence stratigraphy, from the underlying theory to the practical applications. Presents the standard approach to sequence stratigraphic methodology, nomenclature, and classification; the role of modeling in sequence stratigraphy, and the difference between modeling and methodology Discusses the roles of scale and stratigraphic resolution in sequence stratigraphy, and the workflow that affords a consistent application of the method. This enables the practitioner to avoid nomenclatural and methodological confusions and apply sequence stratigraphy. Describes the three-dimensional nature of the stratigraphic architecture, and the variability of stratigraphic sequences with the tectonic setting, depositional setting, and the climatic regime. Illustrates all concepts with high-quality, full-color diagrams, outcrop photographs, and subsurface well data and seismic images.

**Deepwater Sedimentary Systems** - Jon R. Rotzien 2022-08-18

Deepwater Sedimentary Systems: Science, Discovery and Applications helps readers identify, understand and interpret deepwater sedimentary systems at various scales – both onshore and offshore. This book describes the best practices in the integration of geology, geophysics, engineering, technology and economics used to inform smart business decisions in these diverse environments. It draws on technical results gained from deepwater exploration and production drilling campaigns and global field analog studies. With the multi-decadal resiliency of deepwater exploration and production and the nature of its inherent uncertainty, this book serves as the essential reference for companies, consultancies, universities, governments and deepwater practitioners around the world seeking to understand deepwater systems and how to explore for and produce resources in these frontier environments. From an academic perspective, readers will use this book as the primer for understanding the processes, deposits and sedimentary environments in deep water – from deep oceans to deep lakes. This book provides conceptual approaches and state-of-the-art interpretation of deepwater systems, as well as scenarios for the next 100 years of human-aided exploration and development in deepwater, offshore environments. The students taught this material in today’s classrooms will become the leaders of tomorrow in Earth’s deepwater frontier. This book provides a broad foundation in deepwater sedimentary systems. What may take an individual dozens of academic and professional courses to achieve an understanding in these systems is provided here in one book. Presents a holistic view of how subsurface and engineering processes work together in the environment, bringing together contributions from the various technical and engineering disciplines. Provides diverse perspectives from a global authorship to create an accurate picture of the process of deepwater exploration and production around the world. Helps readers understand how to interpret deepwater systems at various scales to inform smart business decisions, with a significant portion of the workflows derived from the upstream energy industry.

**Sedimentology and Stratigraphy** - Gary Nichols 2023-04-10

Comprehensive textbook on all aspects of sedimentology and stratigraphy. The 3rd edition has been thoroughly revised and updated. The chapter structure has been revised, such that there are distinct sections on geomorphology and on stratigraphy for each depositional setting. The new edition also features a new set of illustrations in full colour. Key concepts introduced in Sedimentology and Stratigraphy include: The importance of changes in plant and animal life through time and the effects on characteristics of both marine and continental sedimentary environments. The distinction between modern environments and what is preserved in the sedimentary record, with coverage of glacial erosional and depositional landforms. Modern desert environments and aeolian deposits in the stratigraphic record. Fluvial processes including patterns of tributary and distributary channels at different scales and in different settings. Written by a highly qualified author with abundant experience in the field, Sedimentology and Stratigraphy serves as a highly accessible resource for students of geology and related subjects who seek to understand the formation, characteristics, and importance of sedimentary rocks. The Second Edition presents
updated technical information, and offers a major
reorganization of chapters to promote greater clarity
and to place emphasis on more current topics. Additional content highlights: provides new approaches
to basic analysis, including sequence stratigraphy;
integrates genetically related depositional environments
that share a common thread in concurrent chapters;
discusses topics such as sedimentary processes and
structures, the desert system, the fluvial system, the
delta system, the barrier island system, reefs and the
carbonate platform system, the deep ocean system, and
much more." --

Biogenic Structures - Harold Allen Curran 1985

Studyguide for Principles of Sedimentology and
Stratigraphy by Sam Boggs. ISBN 9780321643186 - Cram101
Textbook Reviews 2013-01-01

Never HIGHLIGHT A Book Again! Virtually all of the
testable terms, concepts, persons, places, and events
from the textbook are included. Cram101 Just the
FACTS101 studyguides give all of the outlines,
highlights, notes, and quizzes for your textbook with
optional online comprehensive practice tests. Only
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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

Basin Analysis - Philip A. 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 prerequisite 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 four parts that establish the
geo-mechanical environment for sedimentary basins and the
physical state of the lithosphere, followed by a coverage of the mechanics of basin information, 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 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:
http://www.wiley.com/go/allen/basinanalysis

Principles of Sedimentology and Stratigraphy - Cody Long
2022-09-20
The study of sediments such as sand, silt and clay is
to referred to as sedimentology. This includes the analyses of
various process related to their formation, transportation, diagenesis and deposition. Sedimentary
rocks and structures are the key areas of focus under
this discipline. Sedimentary rocks can be broadly
classified into carbonates, clastic rocks, chemical
sedimentary rocks and evaporites. Stratigraphy is a
branch of geology which is closely related to
sedimentology. It focuses on the structure of rock
layers and layering. This discipline can be divided into
lithostratigraphy, biostratigraphy and chronostratigraphy. The topics included in this book on
sedimentology and stratigraphy are of utmost
significance and bound to provide incredible insights to
readers. Some of the diverse topics covered herein
address the varied branches that fall under this
category. Coherent flow of topics, student-friendly
language and extensive use of examples make this book an
impossible source of knowledge.

Sedimentary Petrology - Maurice E. Tucker 2013-05-22
The earlier editions of this book have been used by
successive generations of students for more than 20
years, and it is the standard text on the subject in most
British universities and many others throughout the
world. The study of sediments and sedimentary rocks
continues to be an active topic in the Earth Sciences and
this book aims to provide a concise account of their
composition, mineralogy, textures, structures, diagenesis
and depositional environments. This latest edition is
noteworthy for the inclusion of 16 plates with 54 colour
photomicrographs of sedimentary rocks in thin-section.
These bring sediments to life and allow the beauty
and color appearance down the microscope; they will aid
the student in laboratory petrographic work.
The text has been revised where necessary and the
reference and further reading lists brought up-to-date.
New tables have been included to help undergraduates with
rock and thin-section description and interpretation. New
16-page colour section will mean students do not need
to buy Longman Atlas. All illustrations redrawn to higher
standard Complete revision of text - new material on
sedimentary geochemistry, etc.

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 including 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
Sedimentology and Stratigraphy - Aiden Williams
2019-06-11
The study of sediments such as silt, clay and sand, and
the processes that shape their formation is referred to as
sedimentology. Some of these processes are
weathering, erosion, deposition, transport and
diagenesis. Studies of sedimentary rocks and structures are fundamental to the reconstruction of past
environments and understanding of the Earth’s geologic
history. The principles of superposition, original
horizontality, lateral continuity and cross-cutting
relationships are vital to the study of sedimentology.
This field is closely associated with stratigraphy. It is
a branch of geology that studies rock layers and
stratification. It is crucial for the study of layered
volcanic rocks and sedimentology. The sub-fields of
stratigraphy are biostratigraphy and litostratigraphy.
Descriptions of rock core, sequence stratigraphy and lithology of the rock are some of the focus areas of sedimentology as well as stratigraphy. This book provides comprehensive insights into the fields of sedimentology and stratigraphy. Also included in this book is a detailed explanation of the various concepts and applications of these domains. In this book, using case studies and examples, constant effort has been made to make the understanding of the difficult concepts of these disciplines as easy and informative as possible for the readers.

**Petroleum of Sedimentary Rocks** - Sam Boggs, Jr 2009-02-19

Advanced textbook outlining the physical, chemical, and biological properties of sedimentary rocks through petrographic microscopy, geochemical techniques, and field study. *Carbonate Sedimentology and Sequence Stratigraphy* - Wolfgang Schlager 2005

This book, dedicated to carbonate rocks, approaches sequence stratigraphy from its sedimentologic background. It attempts to communicate by combining different specialities and different lines of reasoning, and by searching for principles underlying the bewildering diversity of carbonate rocks. It provides enough general background, in introductory chapters and appendices, to be easily digestible for sedimentologists and stratigraphers as well as earth scientists at large.

**Principles of Sedimentology and Stratigraphy** - Sam Boggs Jr. 2013-08-27

This concise treatment of the fundamental principles of sedimentology and stratigraphy highlights the important physical, chemical, biological and stratigraphic characteristics of sedimentary rocks. It emphasises the ways in which the study of sedimentary rocks is used to interpret depositional environments, changes in ancient sea level, and other intriguing aspects of Earth's history. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital eBook products whilst you own the eBook. *Studyguide for Principles of Sedimentology and Stratigraphy* by Boggs, Sam - Cram101 Textbook Reviews 2013-05

Never HIGHLIGHT a Book Again Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompaniies: 97808872893795. This item is printed on demand.

**Introduction to Sedimentology** - Supriya Sengupta 2017-10-08

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.

**Depositional Systems** - Richard A. Davis (Jr.) 1983

**Alluvial Sedimentation** - M. Marzo 2009-04-15

Most of the thirty-four papers contained in this Special Publication arise from the Fourth International Conference on Fluvial Sedimentology held in Spain in 1989. Sections deal with various aspects of sediment transport and hydraulics in flume experiments and modern rivers, the analysis of alluvial facies, geomorphic and structural controls on alluvial sedimentation, alluvial stratigraphy and basin analysis, and finally the exploration and exploitation of ores. A professional reference to the most recent research in fluvial sedimentology, An international expert authorship.

**Stratigraphy and Sedimentation** - William Christian Krumbein 1963

**Sedimentary Geology** - Donald R. Prothero 2013-12-30

Written for a first course in sedimentary geology or sedimentary rocks and stratigraphy (with only an introductory geology/physical geology course as a prerequisite), Prothero and Schwab shows students how sedimentary strata serves geologists as a continuous record of Earth's history. The authors' conversational style, and focus on the important concepts make the book highly accessible to an undergraduate audience.

**Principles of Sedimentary Basin Analysis** - Andrew Miall 2013-04-17

This book is intended as a practical handbook for those engaged in the task of analyzing the paleogeographic evolution of ancient sedimentary basins. The science of stratigraphy and sedimentology is central to such interdisciplinary endeavors, but although several excellent textbooks on sedimentology have appeared in recent years little has been written about modern stratigraphic methods. Sedimentology textbooks tend to take a theoretical approach, building from physical and chemical theory and studies of modern environments. It is commonly difficult to apply this information to practical problems in ancient rocks, and very little guidance is given on methods of observation, mapping and interpretation. In this book theory is downplayed and the emphasis is on what a geologist can actually see in outcrops, well records, and cores, and what can be obtained using geophysical techniques. A new approach is taken to stratigraphy, which attempts to explain the genesis of lithostratigraphic units and to de-emphasize the importance of formal description and nomenclature. There are also sections explaining principles of facies analysis, basin mapping methods, depositional systems, and the study of basin thermal history, so important to the genesis of fuels and minerals. Lastly, an attempt is made to tie everything together by considering basins in the con text of plate tectonics and eustatic sea level changes.

**Principles of Sedimentary Deposits** - Gerald M. Friedman 1992

"Sedimentology and stratigraphy are covered in unprecedented depth in this updated and dynamic follow-up to 'Principles of sedimentology', regarded since its publication in 1978 as the definitive text in the field. Suitable for advanced undergraduate and graduate students, this new text encompasses a contemporary global view of sedimentary deposits. The most recent data on such increasingly important topics as seismic stratigraphy and sequence stratigraphy, process sedimentology, facies patterns, extraterrestrial forcing functions, basin analysis, and plate tectonics are explored. The text's structure and organization accommodate a complete treatment of both sedimentology and stratigraphy and presents them in a historical context." --

**Principles of Sedimentology** - Gerald M. Friedman 1978

**Principles of Tidal Sedimentology** - Richard A. Davis Jr. 2011-10-20

This book presents a comprehensive, contemporary review of tidal environments and deposits. Individual chapters, each written by world-class experts, cover the full spectrum of coastal, shallow-marine and even deep-marine settings where tidal action influences or controls sediment movement and deposition. Both siliciclastic and
carbonate deposits are covered. Various chapters examine the dynamics of sediment transport by tides, and the morphodynamics of tidal systems. Several chapters explore the occurrence of tidal deposits in the stratigraphic context of entire sedimentary basins. This book is essential reading for both coastal geologists and managers, and geologists interested in extracting hydrocarbons from complex tidal successions. 

**The Sedimentary Record of Sea-Level Change** - Dan W. J. Bosence 2003-05-22

This unique textbook describes how past changes in sea-level can be detected through an analysis of the sedimentary record. In particular, it concentrates on the current sequence stratigraphy model. It explains this model from basics and shows how the model can be applied to both siliciclastic and carbonate successions. Designed for undergraduate and graduate courses in sequence stratigraphy, as well as for professional courses within the petroleum industry, this full-colour textbook includes numerous features that will aid tutors and students alike. These include detailed case studies demonstrating the practical applications of sequence stratigraphy and set-aside boxes providing supplementary and background information. Bulletted questions and answers are interspersed throughout the text, demonstrating the practical applications of sequence stratigraphy and set-aside boxes providing supplementary and background information. The book is supported by a website hosting sample pages from the book, selected illustrations to download, and worked exercises.

**Introducing Stratigraphy** - Paul Lyle 2019-06-03

Stratigraphy is the branch of geology which studies rock layers (strata) and layering (stratification). Stratigraphy deals primarily with sedimentary rocks but also embraces layered igneous rocks where layers result from successive lava flows. A common goal of stratigraphic studies is the interpretation of sequences of rock strata, thus understanding the time relationships involved, and correlating units of the sequence with rock strata elsewhere. Nicholas Steno described four principles of stratigraphy in the seventeenth century, including the law of superposition which states that states that, in undeformed stratigraphic sequences, the oldest strata will be at the bottom of the sequence. These ideas still underpin modern stratigraphy which is governed by the International Commission on Stratigraphy. Its primary objective is to precisely define global units (systems, series, and stages) of the International Chronostratigraphic Chart that, in turn, are the basis for the units (periods, epochs, and age) of the International Geologic Time Scale. Stratigraphy has application in many scientific fields, including archaeology, palaeontology and in the search for natural resources. This succinct and accessible introduction to stratigraphy will prove helpful to students and amateur geologists alike.

**Principles of Sedimentology and Stratigraphy** - Sam Boggs 2006

A concise treatment of the fundamental principles of sedimentology and stratigraphy, featuring the important physical, chemical, biological and stratigraphic characteristics of sedimentary rocks. Emphasized are the ways in which the study of sedimentary rocks is used to interpret depositional environments, changes in ancient sea level, and other intriguing aspects of Earth history. Topics include the origin and transport of sedimentary materials; physical properties of sedimentary rocks; composition, classification and diagenesis of sedimentary rocks and principles of stratigraphy and basin analysis. For individuals interested in one text providing comprehensive coverage of both sedimentology and stratigraphy.

**Principles of Elemental Chemostratigraphy** - Neil Craigie 2018-08-11

This book provides the reader with a comprehensive understanding of the applications of chemostratigraphy. The first chapter of the book offers an introduction to the technique. This is followed by a chapter detailing sample preparation and analytical techniques. Chapter 3 focuses on the techniques utilised to establish the mineralogical affinities of elements, while the general principles of how to build a chemostratigraphic scheme are covered in Chapter 4. Chapters 5, 6 and 7 provide an overview on the applications of chemostratigraphy to clastic, carbonate and unconventional reservoirs respectively, and various case studies are presented. Wellsite applications, a discussion and conclusion section form the latter part of the book. The book will appeal to graduate and post graduate students of geology and professionals working in the hydrocarbon sector as a key reference text in chemostratigraphy.

**The Geology of Stratigraphic Sequences** - Andrew D. Miall 2010-06-09

It has been more than a decade since the appearance of the First Edition of this book. Much progress has been made, but some controversies remain. The original ideas of Sloss and of Vail (building on the early work of Blackwelder, Grabau, Ulrich, Levorsen and others) that the stratigraphic record could be subdivided into sequences, and that these sequences store essential information about basin-forming and subsidence processes, remains as powerful an idea as when it was first formulated. The definition and mapping of sequences has become a standard part of the basin analysis process. The main purpose of this book remains the same as it was for the first edition, that is, to situate sequences within the broader context of geological processes, and to answer the question: why do sequences form? Geoscientists might thereby be better equipped to extract the maximum information from the record of sequences in a given basin or region. Tectonic, climatic and other mechanisms are the generating mechanisms for sequences ranging over a wide range of times scales, from hundreds of millions of years to the high-frequency sequences formed by cyclic processes lasting a few tens of thousands of years. 