

# Sedimentology and Sedimentary Basins

*From Turbulence to Tectonics*

MIKE LEEDER



# Sedimentology And Sedimentary Basins From Turbulence To Tectonics

**S Marginson**



## **Sedimentology And Sedimentary Basins From Turbulence To Tectonics:**

Sedimentology and Sedimentary Basins Mike R. Leeder, 2011-02-21 The sedimentary record on Earth stretches back more than 4.3 billion years and is present in more abbreviated forms on companion planets of the Solar System like Mars and Venus and doubtless elsewhere Reading such planetary archives correctly requires intimate knowledge of modern sedimentary processes acting within the framework provided by tectonics climate and sea or lake level variations The subject of sedimentology thus encompasses the origins transport and deposition of mineral sediment on planetary surfaces The author addresses the principles of the subject from the viewpoint of modern processes emphasising a general science narrative approach in the main text with quantitative background derived in enabling cookie appendices The book ends with an innovative chapter dealing with how sedimentology is currently informing a variety of cognate disciplines from the timing and extent tectonic uplift to variations in palaeoclimate Each chapter concludes with a detailed guide to key further reading leading to a large bibliography of over 2500 entries The book is designed to reach an audience of senior undergraduate and graduate students and interested academic and industry professionals Studyguide for Sedimentology and Sedimentary Basins 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 Accompanies 9780872893795 This item is printed on demand *Tectonics of Sedimentary Basins* Cathy Busby, Antonio Azor Pérez, 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 1960s 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 3D 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 [www.wiley.com/go/busby/sedimentarybasins](http://www.wiley.com/go/busby/sedimentarybasins) Tracing Tectonic Deformation Using the Sedimentary Record Tom

McCann, Aline Saintot, 2003 The study of sediments and sedimentary basins in terms of their tectonic environment requires a multidisciplinary approach and has increasingly drawn both techniques and objectives from fields outside sedimentology Studies presented in this volume range across a wide spectrum from the analysis of sedimentary sequence architecture at basin scale down to the chemical properties of individual grains and include studies from a range of tectonic settings

**Sedimentology and Stratigraphy** Gary Nichols, 2023-06-06 Umfassendes Lehrwerk über sämtliche Aspekte der Sedimentologie und der grundlegenden Stratigraphie Das Buch Sedimentology and Stratigraphy führt in die Thematik ein und gibt den Leserinnen und Lesern Werkzeuge zur Interpretation von Sedimenten und Sedimentgesteinen an die Hand Dabei werden die Prozesse der Bildung des Transports und der Ablagerung von Sedimenten behandelt und auf die Entwicklung konzeptioneller Modelle für sämtliche Sedimentumgebungen von Werten über die Tiefsee und Riffe bis zu Flüssen angewandt Für einen umfassenden Überblick über sämtliche Aspekte der Sedimentologie und Stratigraphie werden außerdem verschiedene Ansätze zur Nutzung stratigraphischer Prinzipien bei der Datierung und Korrelierung von Schichten betrachtet Die 3. Auflage wurde gründlich bearbeitet und aktualisiert Dabei wurde die Kapitelgliederung so geändert dass nun separate Abschnitte zur Geomorphologie und zur Stratigraphie für jede Sedimentumgebung vorhanden sind Außerdem enthält die neue Ausgabe zusätzliche farbige Abbildungen Die wesentlichen Konzepte die in Sedimentology and Stratigraphy eingeführt werden umfassen u.a. Die Bedeutung von Veränderungen in der Pflanzen und Tierwelt im Zeitverlauf und die Auswirkungen auf die Charakteristik des Sedimentumfelds im Meer und an Land Die Unterscheidung zwischen modernen Umgebungen und dem was in den Sedimentabfolgen erhalten geblieben ist mit einer Betrachtung glazialerosionaler und von Ablagerungen geprägter Landformen Heutige Wüstenumgebungen und ozeanische Ablagerungen in der stratigraphischen Abfolge Fluviale Prozesse mit Mustern von Neben- und Verteilerkanälen unterschiedlicher Größenordnung und in verschiedenen Umgebungen Das Werk Sedimentology and Stratigraphy wurde von einem kenntnisreichen Autor mit umfangreicher Erfahrung auf dem Fachgebiet verfasst Es ist ein gut verständliches Lehrwerk für Studierende der Geologie und verwandter Fachgebiete die sich Kenntnisse über die Bildung Eigenschaften und Bedeutung von Sedimentgesteinen aneignen möchten **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/allenbasinanalysis](http://www.wiley.com/go/allenbasinanalysis)

**Sedimentary Facies Reconstruction and Kinematic Restoration of Tight Gas Fields** Anna Alexandra Vackiner, 2013-03-20 The thesis of Anna Alexandra Vackiner focuses on the geometric architecture and tectonic evolution of the Permian series combining seismic interpretation 3D block field studies in an analogue basin Panamint Valley in California as well as 2D restoration of representative cross sections through time in order to illustrate the complex interaction between multiphase extension inversion and salt diapirism It will be of major interest for exploration geologists involved in tectonically complex areas Francois Roure August 2012 This thesis improves the understanding and localization of the Upper Rotliegend II tight gas reservoir rock facies It provides insights into the detailed Upper Rotliegend II palaeo topography and local tectonically induced sediment thickness changes prior to a multi phase tectonic overprinting The research presented in this study further focuses on the tectonically induced synsedimentary facies distribution in transtensional continental settings on the basis of a comparison with a modern field analogue which enables a detailed analysis of the reservoir rock s distribution and its properties The study is rounded off with an analysis of the influence of the multiphase tectonic overprinting on the mature Upper Rotliegend II reservoir rocks

**Petrology** Harvey Blatt, Robert Tracy, Brent Owens, 2006 With new chapters on volcanism new appendices sharper photos together with extensive updating of the whole text this new edition builds on the strengths of its predecessor

**Sand** Michael Welland, 2009-01-15 From individual grains to desert dunes from the bottom of the sea to the landscapes of Mars and from billions of years in the past to the future this is the extraordinary story of one of nature s humblest most powerful and most ubiquitous materials Told by a geologist with a novelist s sense of language and narrative Sand examines the science sand forensics the physics of granular materials sedimentology paleontology and archaeology planetary exploration and at the same time explores the rich human context of sand Interwoven with tales of artists mathematicians explorers and even a vampire the story of sand is an epic of environmental construction and destruction an adventure in staggering scales of time and distance yet a tale that encompasses the ordinary and everyday Sand in fact is all around us it has made possible our computers buildings and windows toothpaste cosmetics and paper and it has played dramatic roles in human history commerce and imagination In this luminous kinetic revelatory account we do indeed find the world in a grain of sand

**Fundamentals of Fluvial Geomorphology** Ro Charlton, 2007-11-12 Rivers are

significant geomorphological agents they show an amazing diversity of form and behaviour and transfer water and sediment from the land surface to the oceans This book examines how river systems respond to environmental change and why this understanding is needed for successful river management Highly dynamic in nature river channels adjust and evolve over timescales that range from hours to tens of thousands of years or more and are found in a wide range of environments This book provides a comprehensive overview of recent developments in river channel management clearly illustrating why an understanding of fluvial geomorphology is vital in channel preservation environmentally sensitive design and the restoration of degraded river channels It covers flow and sediment regimes flow generation flow regimes sediment sources transfer and yield channel processes flow characteristics processes of erosion and sediment transport interactions between flow and the channel boundary deposition channel form and behaviour controls on channel form channel adjustments floodplain development form and behaviour of alluvial and bedrock channels response to change how channels have responded to past environmental change impacts of human activity reconstructing past changes river management the fluvial hydrosystem environmental degradation environmentally sensitive engineering techniques river restoration the role of the fluvial geomorphologist Fundamentals of Fluvial Geomorphology is an indispensable text for undergraduate students It provides straightforward explanations for important concepts and mathematical formulae backed up with conceptual diagrams and appropriate examples from around the world to show what they actually mean and why they are important A colour plate section also shows spectacular examples of fluvial diversity

*Introduction to Ore-Forming Processes* Laurence Robb, 2020-08-06 A comprehensive account of ore forming processes revised and updated The revised second edition of *Introduction to Ore Forming Processes* offers a guide to the multiplicity of geological processes that result in the formation of mineral deposits The second edition has been updated to reflect the most recent developments in the study of metallogeny and earth system science This second edition contains new information about global tectonic processes and crustal evolution that continues to influence the practice of economic geology and maintains the supply of natural resources in a responsible and sustainable way The replenishment of depleted natural resources is becoming more difficult and environmentally challenging There is also a change in the demand for mineral commodities and the concern around the non sustainable supply of critical metals is now an important consideration for planners of the future The book puts the focus on the responsible custodianship of natural resources and the continuing need for all earth scientists to understand metallogeny and the resource cycle This new edition Provides an updated guide to the processes involved in the formation of mineral deposits Offers an overview of magmatic hydrothermal and sedimentary ore forming processes Covers the entire range of mineral deposit types including the fossil fuels and supergene ores Relates metallogeny to global tectonics by examining the distribution of mineral deposits in space and time Contains examples of world famous ore deposits that help to provide context and relevance to the process oriented descriptions of ore genesis Written for students and professionals alike

Introduction to Ore Forming Processes offers a revised second edition that puts the focus on the fact that mineral deposits are simply one of the many natural wonders of geological process and evolution      **Fundamentals of the Physical Environment**

Peter Smithson, Ken Addison, Ken Atkinson, 2013-09-05 Fundamentals of the Physical Environment has established itself as a well respected core introductory book for students of physical geography and the environmental sciences Taking a systems approach it demonstrates how the various factors operating at Earth's surface can and do interact and how landscape can be used to decipher them The nature of the earth its atmosphere and its oceans the main processes of geomorphology and key elements of ecosystems are also all explained The final section on specific environments usefully sets in context the physical processes and human impacts This fourth edition has been extensively revised to incorporate current thinking and knowledge and includes a new section on the history and study of physical geography an updated and strengthened chapter on climate change 9 and a strengthened section on the work of the wind a revised chapter 15 on cryosphere systems glaciers ice and permafrost a new chapter 23 on the principles of environmental reconstruction a new joint chapter 24 on polar and alpine environments a key new joint chapter 28 on current environmental change and future environments new material on the Earth System and cycling of carbon and nutrients themed boxes highlighting processes systems applications new developments and human impacts a support website at [www.routledge.com/textbooks/9780415395168](http://www.routledge.com/textbooks/9780415395168) with discussion and essay questions chapter summaries and extended case studies Clearly written well structured and with over 450 informative colour diagrams and 150 colour photographs this text provides students with the necessary grounding in fundamental processes whilst linking these to their impact on human society and their application to the science of the environment      Encyclopedia of Environmental Change John A Matthews, 2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geo ecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Land use change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism

Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences

**Sedimentology** James L. Best, C. R. Fielding, Ian Jarvis, Peter Mozley, 2009-05-11 Sedimentology has seen many significant advances and changes over the past 40 years ranging from facies modelling to sequence stratigraphy chemostratigraphy to basin analysis and the integration of studies of physical chemical and increasingly biological processes in the interpretation and prediction of sedimentary environments and products The subject is becoming ever more interdisciplinary and applied and now has far more links to other physical sciences Research and debate are continuing afresh as we move into this new interdisciplinary phase and promise many developments and increased uses of our subject Now seemed a good time to publish a series of review papers concerning some key current areas of research We hope that these papers will provide comprehensive starting points for those wishing to become acquainted with an area act as stimuli for debate and provide awareness and ideas for future research avenues No issue of this sort can of course ever be truly comprehensive in its coverage these reviews concern only selected snippets from the wide scope of sedimentology and each has of necessity been selective in its own area

**Bedding Surfaces: True**

**Substrates and Earth's Historical Archive** N.S. Davies, A.P. Shillito, 2025 Bedding surfaces are innate to the fabric of sedimentary successions This Special Publication provides new perspectives on these familiar features exploring the differentiation of depositional and diagenetic bedding the time significance of surfaces the significance of true substrates preserved interfaces of lithosphere and hydro atmosphere and palaeoecological and palaeoenvironmental case studies

**Submarine Landslides** Kei Ogata, Andrea Festa, Gian Andrea Pini, 2019-11-26 An examination of ancient and contemporary submarine landslides and their impact Landslides are common in every subaqueous geodynamic context from passive and active continental margins to oceanic and continental intraplate settings They pose significant threats to both offshore and coastal areas due to their frequency dimensions and terminal velocity capacity to travel great distances and ability to generate potentially destructive tsunamis Submarine Landslides Subaqueous Mass Transport Deposits from Outcrops to Seismic Profiles examines the mechanisms characteristics and impacts of submarine landslides Volume highlights include Use of different methodological approaches from geophysics to field based geology Data on submarine landslide deposits at various scales Worldwide collection of case studies from on and off shore Potential risks to human society and infrastructure Impacts on the hydrosphere atmosphere and lithosphere

**Environmental Sedimentology** Chris Perry, Kevin

Taylor, 2006-12-04 Environmental Sedimentology provides a comprehensive introduction to this rapidly expanding field which addresses the functioning and dynamics of contemporary sediment systems and how these systems respond to a range of both natural and anthropogenically induced disturbance events considers a range of sedimentary environments mountain and upland fluvial lacustrine arid urban deltaic and estuarine temperate coastal tropical coastal and continental shelf aspects of



sediment management and remediation are also considered as are the potential impacts of on going and future climatic and environmental change Readership advanced level undergraduates in earth science environmental science and physical geography and graduate students in the earth and environmental sciences with an interest in contemporary sediment systems

Introduction to Coastal Processes and Geomorphology Gerd Masselink, 2014-04-04 The world's coastlines represent a myriad of dynamic and constantly changing environments Heavily settled and intensely used areas they are of enormous importance to humans and understanding how they are shaped and change is crucial to our future Introduction to Coastal Processes and Geomorphology begins by discussing coastal systems and shows how these systems link to the processes examined in detail throughout the book These include the morphodynamic paradigm tides waves and sediment transport Later chapters explore fluvial deltas estuaries beaches and barriers coastal sand dunes and geologically influenced coasts such as cliffs coral reefs and atolls A new chapter addresses the forward facing aspect of coastal morphodynamics including the ways in which coasts respond to rapid climate changes such as present day global warming Also new to this second edition is a chapter on future coasts which considers the wider effects of coastal change on other important aspects of coastal systems including ecology management socio cultural activities built and natural heritage and archaeology Case studies using examples from around the world illustrate theory in practice and bring the subject to life Each chapter starts by outlining the aims and questions at the end allow you to track your progress This book is accompanied by additional resources online at [www.hodderplus.com](http://www.hodderplus.com) geography including Answers to the questions available to download as MP3 files Expanded case studies with colour photos links to relevant websites and a map link to pinpoint the case study location Interactive multiple choice questions and worked examples The ebook edition is in VitalBook™ Bookshelf an ebook reader which allows you to download the ebook to your computer or access it anywhere with an internet browser search the full text of all of the ebooks that you hold on your bookshelf for instant access to the information you need make and share notes and highlights on your ebooks copy and print text and figures customize your view by changing font size and layout

Geology and Mineral Resources R. K. Upadhyay, 2025-01-10 This book focuses on understanding Earth's geology its mineral resources their exploration and management of the environment There are 3 parts and 12 chapters and they provide an insight to the students of earth sciences Part I consisting of initial four chapters provides snapshots on the Universe the Earth and its internal dynamics and external geological processes The mineral resources are covered in Part II with 5 chapters featuring Earth's elements metals minerals rocks and the mineral resources As they are non renewable the importance of their scientific exploration evaluation mining beneficiation optimum utilization and adverse impact safety management and environment are covered in the last 3 chapters in Part III

**Petroleum Geoscience** Jon G. Gluyas, Richard E. Swarbrick, 2021-01-13 Petroleum Geoscience 2nd edition is a comprehensive introduction to the application of geology and geophysics to the search for and production of oil and gas The aim this updated second edition remains the same to provide a

comprehensive grounding in the geological sciences as applied to exploration for and production of oil and gas. Uniquely, this book is structured to reflect the sequential and cyclical processes of exploration, appraisal, development, and production. Chapters dedicated to each of these aspects are further illustrated by new case histories drawn from the authors' experiences. Petroleum Geoscience 2nd edition has a global and geotemporal backdrop, drawing examples and case histories from around the world and from petroleum systems ranging in age from late Pre-Cambrian to Pliocene. In order to show how geoscience is integrated at all levels within the industry, the authors stress throughout the links between geology and geophysics on the one hand, and drilling, reservoir engineering, petrophysics, petroleum engineering, facilities design, and health, safety, and the environment on the other. Discovery and production of petroleum underpinned global development throughout the twentieth century, but times are changing. Combustion of fossil fuels and release of greenhouse gases, mainly carbon dioxide, is driving climate change. The skills and knowledge of the petroleum geoscientist also find application in carbon storage and geothermal energy recovery from the Earth. This second edition addresses such technologies in the newly added Chapter 7. The target readership is mainly final year undergraduates and postgraduates in the earth sciences, together with little experienced technical staff within the petroleum industry. The book draws on a large variety of examples from many basins around the world, and as a consequence should appeal to those interested in petroleum geoscience, whether they be in Aberdeen, Abu Dhabi, Houston, or Ho Chi Minh.

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