

Sedimentary Environments Processes Facies And Stratigraphy

When somebody should go to the books stores, search launch by shop, shelf by shelf, it is in point of fact problematic. This is why we provide the books compilations in this website. It will totally ease you to look guide **Sedimentary Environments Processes Facies And Stratigraphy** as you such as.

By searching the title, publisher, or authors of guide you in point of fact want, you can discover them rapidly. In the house, workplace, or perhaps in your method can be every best place within net connections. If you point toward to download and install the Sedimentary Environments Processes Facies And Stratigraphy, it is agreed simple then, since currently we extend the associate to buy and create bargains to download and install Sedimentary Environments Processes Facies And Stratigraphy for that reason simple!

Sedimentary Environments Processes Facies And Stratigraphy

2024-12-02

TRISTIAN CHRISTINE

Three Volume Set Springer

The Frontiers in Sedimentary Geology series was established for the student, the researcher, and the applied scientist to enhance their potential to stay abreast of the most recent ideas and developments and to become familiar with certain topics in the field of sedimentary geology. This series deals with subjects that are in the forefront of both scientific and economic interests. The treatment of a subject in an individual volume, therefore, should be a combination of topical, regional, and interdisciplinary approaches. The interdisciplinary aspects are becoming more and more important because most studies dealing with the natural sciences cannot effectively stand alone. Although this thrust may sound simple, in reality it is not, basically because each discipline has developed its own jargon and definitions of terms. Communication among disciplines is a major issue and can be accomplished more constructively when people with different backgrounds join together at the same symposium and can read from the same volume rather than confining themselves within the world of their own specialty meetings and journals. Books in this series provide this connective link between disciplines. Each book in this series provides a continuous and connected flow of concepts throughout the volume by the use of introductory chapters that outline a topic to help the reader grasp its problems and to understand the contributions that follow.

Stratigraphic Systems John Wiley & Sons

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.

Fluvial Facies and Architecture of the Poison Strip Sandstone Lower Cretaceous Cedar Mountain Formation, Grand County, Utah John Wiley & Sons

There are three types of rock—igneous, metamorphic and sedimentary. Sedimentary rocks form from the weathering, erosion, transportation and deposition of older rocks. Applied Sedimentology describes the formation, transportation and deposition of sediment, and the post-depositional processes that change soft sediment into sedimentary rock. Sedimentary rocks include sandstones, limestones and mudstones. All the world's coal, most of its water and fossil fuels, and many mineral deposits occur in sedimentary rocks. Applied Sedimentology shows how the study of sediments aids the exploration for and exploitation of natural resources, including water, ores and hydrocarbons. * Completely revised edition; Like its precursor, it describes sediments from sand grains to sedimentary basins; Features up-to date account and critique of sequence and cyclostratigraphy * Extensively illustrated with photos and remotely sensed sea bed images describing sedimentary processes, products and depositional systems; Color plates illustrate sediment textures, lithologies, pore types, diagenetic textures, and carbonate and clastic sequence stratigraphic models * Emphasises the applications of sedimentology to the exploration for and exploitation of natural resources, including water, ores and hydrocarbons * Extensive references and up-to-date bibliography for further study

The Neuquén Basin, Argentina Springer Science & Business Media

The stratigraphic record represents the history of processes and events that occurred at the surface of the earth. Presently, there are no textbooks on the market that integrate physical, chemical, and biological processes to predict stratigraphic patterns. Visher's authoritative Stratigraphic Systems fills this niche. It outlines the principle stratigraphic concepts for exploration of hydrocarbon accumulations, with more than 700 illustrations. Can be used as a primary textbook for an undergraduate course in stratigraphy and sedimentation. * CD-ROM features expert systems software for identifying or verifying stratigraphic intervals * Provides historical and paleogeographic context for observations * Conveniently organizes stratigraphic systems into basinal frameworks * Incorporates statistical probability analysis, yet is not mathematically demanding * Stresses an analytical, rather than a descriptive, approach to predicting temporal and areal stratigraphic patterns * Includes more than 700 figures and tables

A Tribute to Peter Friend Springer Science & Business Media

Sedimentary Environments Processes, Facies and Stratigraphy John Wiley & Sons

Physical Geology Springer Science & Business Media

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.

Ancient Sedimentary Environments John Wiley & Sons

Continental margins form the relatively narrow transition zones between the different domains of land masses and deep-ocean basins. They are the main regions of sediment input and transfer of sediments to the oceans and thus represent important zones of sediment flux. This work addresses three topics of significance to continental margin development: sedimentation, mass-wasting and stability. It should be of interest to marine geologists, sedimentologists, palaeoceanographers and physical properties specialists.

Deep Marine Systems John Wiley & Sons

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/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.

Sedimentation, Mass-wasting and Stability Springer Science & Business Media

A passionate eyewitness account of the mysteries and looming demise of glaciers—and what their fate means for our shared future The ice sheets and glaciers that cover one-tenth of Earth's land surface are in grave peril. High in the Alps, Andes, and Himalaya, once-indomitable glaciers are retreating, even dying. Meanwhile, in Antarctica, thinning glaciers may be unlocking vast quantities

of methane stored for millions of years beneath the ice. In *Ice Rivers*, renowned glaciologist Jemma Wadham offers a searing personal account of glaciers and the rapidly unfolding crisis that they—and we—face. Taking readers on a personal journey from Europe and Asia to Antarctica and South America, Wadham introduces majestic glaciers around the globe as individuals—even friends—each with their own unique character and place in their community. She challenges their first appearance as silent, passive, and lifeless, and reveals that glaciers are, in fact, as alive as a forest or soil, teeming with microbial life and deeply connected to almost everything we know. They influence crucial systems on which people depend, from lucrative fisheries to fertile croplands, and represent some of the most sensitive and dynamic parts of our world. Their fate is inescapably entwined with our own, and unless we act to abate the greenhouse warming of our planet the potential consequences are almost unfathomable. A riveting blend of cutting-edge research and tales of encounters with polar bears and survival under the midnight sun, *Ice Rivers* is an unforgettable portrait of—and love letter to—our vanishing icy wildernesses.

Seismic Facies and Sedimentary Processes of Submarine Fans and Turbidite Systems Academic Press

For several decades Peter Friend has been one of the leading figures in sedimentary geology and throughout that time he has helped scores of other people by supervising doctoral students, collaborating with colleagues, especially in developing countries, and selflessly sharing ideas with fellow geologists. This collection of papers is a survey of the research frontier in basin dynamics, a field Peter Friend helped initiate, and a token of thanks from people who have benefited from an association with Peter during their careers. The papers in this book fall into four themes - Tectonics and sedimentation, Landscape evolution and provenance, Depositional systems and Fluvial sedimentation - which reflect Peter's research interests and are all important areas of current research in sedimentary geology. There are both case studies and review articles on these themes which reflect recent work, but the collection can also be considered to be a 'sampler' of sedimentary geology for anyone with broad interests in the Earth sciences.

Sedimentary Environments and Facies Springer Nature

Sedimentary rocks contain the most important archive of environmental change through earth history. They record changing climates, the movement of plates, and the rise and fall of sea-level on timescales of a few thousand to billions of years. 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.

Mud and Mudstones BoD - Books on Demand

Required reading for geologists working in the offshore areas, Volume 10 continues the series from the Norwegian Petroleum Society. This work provides an up-to-date review of the late Palaeozoic to present sedimentary history of the Norwegian offshore areas in the North Sea and Mid-Norway basins. Case studies, overview articles and analogue examples from adjacent areas such as Greenland and Denmark, present new ideas on the development of the Norwegian margin from the Carboniferous through the Mesozoic and Cenozoic. In particular, new evidence and interpretations are presented on well-known major reservoir-bearing successions such as the Statfjord Formation and Dunlin Group in the Northern North Sea, and the Åre and the Tilje Formations in the Mid-Norway area. Furthermore, the Upper Jurassic succession in the Haltenbanken area is described, giving new evidence on the interplay between extensional tectonics and sedimentation during the second major rift phase in the area. The Cretaceous and Cenozoic periods are treated extensively, showing their importance as overall deep water sedimentary systems with proven and potential reservoir rocks, such as in the Ormen Lange Field, and for causing burial of Jurassic rocks to advantageous depths for hydrocarbon generation. The Recent sedimentary history of the Norwegian margin is treated with examples of the glacial history and giant submarine slides which understanding is vital for the placement of offshore installations. The book is organised based on geologic time, from Palaeozoic through Mesozoic to Cenozoic examples. It includes a set of palaeogeographic maps from the Carboniferous through to the Cenozoic. In addition, there are numerous examples of core photographs, well log data, correlation panels and seismic as well as outcrop photographs and logs from the analogue examples. Comprehensive reference and keyword lists are also included.

A Story of Glaciers, Wilderness, and Humanity Routledge

Provides comprehensive information about the key exploration, development and optimization concepts required for gas shale reservoirs Includes statistics about gas shale resources and countries that have shale gas potential Addresses the challenges that oil and gas industries may confront for gas shale reservoir exploration and development Introduces petrophysical analysis, rock physics, geomechanics and passive seismic methods for gas shale plays Details shale gas environmental issues and challenges, economic consideration for gas shale reservoirs Includes case studies of major producing gas shale formations

Fundamentals of Gas Shale Reservoirs St. John's, Nfld. : Geological Association of Canada

The 2e of Seismic Stratigraphy and Depositional Facies Models summarizes basic seismic interpretation techniques and demonstrates the benefits of integrated reservoir studies for hydrocarbon exploration. Topics are presented from a practical point of view and are supported by well-illustrated case histories. The reader is taken from a basic level to more advanced study techniques. The presented modern geophysical techniques allow more accurate prediction of the changes in subsurface geology. Dynamics of sedimentary environments are discussed their relation to global controlling factors, and a link is made to high-resolution sequence stratigraphy. The interest in seismic stratigraphic techniques to interpret reflection datasets is well established. The advent of sophisticated subsurface reservoir studies and 4D monitoring for optimizing the hydrocarbon production in existing fields demonstrate the importance of the 3D seismic methodology. The added value of reflection seismics to the petroleum industry has clearly been proven over the last few decades. Seismic profiles and 3D cubes form a vast and robust data source to unravel the structure

of the subsurface. Larger offsets and velocity anisotropy effects give access to more details on reservoir flow properties like fracture density, porosity and permeability distribution. Elastic inversion and modeling may tell something about the change in petrophysical parameters. Seismic investigations provide a vital tool for the delineation of subtle hydrocarbon traps, and they are the basis for understanding the regional basin framework and the stratigraphic subdivision. Seismic stratigraphy combines two very different scales of observation: the seismic and well control. The systematic approach applied in seismic stratigraphy explains why many workers are using the principles to evaluate their seismic observations. Discusses the link between seismic stratigraphic principles and sequence stratigraphy Provides techniques for seismic reservoir characterization as well as well control Analyzes inversion, AVO and seismic attributes

Ancient Sedimentary Environments Routledge

This volume examines the processes responsible for sedimentation in modern glaciomarine environments, and how such modern studies can be used as analogues in the interpretation of ancient glaciomarine sequences. Sediments released from glaciers grounded in tidewater, floating ice shelves, ice tongues, icebergs and sea ice form complex sequences governed by glaciological, oceanographic, sedimentary and biogenic controls. Ten per cent of the world's oceans and epicontinental seas contain such active glaciomarine environments, but during Cenozoic glacial periods this area was doubled. This book will, therefore, be of relevance to all scientists concerned with high and middle latitude marine environments. The early chapters are concerned largely with processes of sedimentation in modern glaciomarine environments; examples are drawn from Alaska, the Canadian Arctic, Svalbard and Antarctica. Studies of ancient sequences, both Cenozoic and pre-Cenozoic, from the Barents Sea, Greenland, Sweden, Alaska and the northwest European continental shelf, form the latter part of the book.

Clastic Hydrocarbon Reservoir Sedimentology Dunedin Academic Press Ltd

Sedimentary Environments is one of the most distinguished and influential textbooks in the earth sciences published in the last 20 years. The first and second editions both won universal praise and became classic works in sedimentology. Since the publication of the last edition, the study of sedimentary environments and facies has made great strides, with major advances in facies modelling, sequence stratigraphy and basin modelling. The 3rd edition of this classic text will likely set the benchmark even higher, and needless to say, will continue being the textbook of choice for sedimentology students. The latest edition of a classic text. Incorporates all the latest advances in dynamic stratigraphy. Will remain the textbook of choice for upper level undergraduate and graduate students in sedimentology.

And Their Sub-surface Diagnosis Geological Society of London

The zone where land and sea meet is composed of a variety of complex environments. The coastal areas of the world contain a large percentage of its population and are therefore of extreme economic importance. Industrial, residential, and recreational developments, as well as large urban complexes, occupy much of the coastal margin of most highly developed countries. Undoubtedly future expansion in many undeveloped maritime countries will also be concentrated on coastal areas. Accompanying our occupation of coasts in this age of technology is a dependence on coastal environments for transportation, food, water, defense, and recreation. In order to utilize the coastal

zone to its capacity, and yet not plunder its resources, we must have extensive knowledge of the complex environments contained along the coasts. The many environments within the coastal zone include bays, estuaries, deltas, marshes, dunes, and beaches. A tremendously broad range of conditions is represented by these environments. Salinity may range from essentially fresh water in estuaries, such as along the east coast of the United States, to extreme hypersaline lagoons, such as Laguna Madre in Texas. Coastal environments may be in excess of a hundred meters deep (fjords) or may extend several meters above sea level in the form of dunes. Some coastal environments are well protected and are not subjected to high physical energy except for occasional storms, whereas beaches and tidal inlets are continuously modified by waves and currents.

Sedimentary Basins D Reidel Publishing Company

This book contains six chapters covering the sedimentary processes with examples from Asia, Turkey, and Nigeria. The book focuses on the geological characteristics, beach processes, coastal and lacustrine sedimentary archives, and the role of mangroves in controlling coastal sedimentation. In more detail, these topics are pertaining to the geological characteristics and the production response of a reservoir located offshore the Niger Delta (Nigeria), the coastal lacustrine geo-archives with the example of the Lake Bafa (Turkey), the sedimentary processes in the riparian zone of the Ruxi Tributary Channel (Three Gorges Reservoir, China), the beach morphological changes studied by means of a contour-line change model and finally, the role of the mangroves in controlling the sedimentary accretion of coastal and marine environments with the regional example of the south-eastern Asia.

Sedimentology and Stratigraphy John Wiley & Sons

This edition retains the case history approach to emphasize the subsurface diagnosis of

environments using seismic and geophysical well logs and their application to petroleum exploration and production. This book should be of interest to undergraduates in sedimentology and petroleum geology.

Processes, Deposits, Environments, Tectonic and Sedimentation Elsevier

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 Landuse 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.