

Microfacies Of Carbonate Rocks Analysis Interpretation And Application

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Introduction to Mineralogy and Petrology Swapan Kumar Haldar

2020-07-29 Introduction to Mineralogy and Petrology, second edition, presents the essentials of both

disciplines through an approach accessible to industry professionals, academic researchers, and students alike. This new edition emphasizes the relationship between rocks and minerals, right from the structures created during rock formation through the economics of mineral deposits. While petrology is classified on the lines of geological evolution and rock formation, mineralogy speaks to the physical and chemical properties, uses, and global occurrences for each mineral, emphasizing the need for the growth of human development. The primary goal is for the reader to identify minerals in all respects, including host-rocks, and mineral deposits, with additional knowledge of mineral-exploration, resource, extraction, process, and ultimate use. To help provide a comprehensive analysis across ethical and socio-economic dimensions, a separate chapter describes the hazards associated with minerals, rocks, and

mineral industries, and the consequences to humanity along with remedies and case studies. New to the second edition: includes coverage of minerals and petrology in extra-terrestrial environments as well as case studies on the hazards of the mining industry. Addresses the full scope of core concepts of mineralogy and petrology, including crystal structure, formation and grouping of minerals and soils, definition, origin, structure and classification of igneous, sedimentary and metamorphic rocks Features more than 250 figures, illustrations and color photographs to vividly explore the fundamental principles of mineralogy and petrology Offers a holistic approach to both subjects, beginning with the formation of geologic structures that is followed by the hosting of mineral deposits and the exploration and extraction of lucrative, usable products that improve the health of global

economies Includes new content on minerals and petrology in extraterrestrial environments and case studies on hazards in the mining industry

1987 Census of Construction

Industries 1990

Carbonates in Continental Settings

2009-10-20 This book provides an up-to-date compilation of the latest research on the petrography, facies, paleoenvironmental significance and economic aspects of continental carbonates. The overall organization of the book first emphasizes the descriptive aspects and processes operating on carbonate deposits in greatly varied settings, and then considers applications for basin analysis, as well as economic and historical aspects. This volume will be a valuable tool for graduate and postgraduate students as well as for experienced researchers. The first part (volume 61 in this series) will deal with the facies, environments,

and processes of carbonates in continental settings. Covering the greatly varied aspects of carbonate deposits from continental settings deposits Clear and easy to follow organization of the book Graduate to postgraduate level Up to date information, so readers can find references from the classic literature to the most recent research

Carbonate Reservoir Heterogeneity

Vahid Tavakoli 2019-11-11 This book provides a comprehensive overview of the parameters and factors that cause heterogeneity in carbonate reservoirs, and examines how they interact with one another. It explores the various scales of heterogeneity, how they are caused, and how they can be minimized, as well as how the scales affect each other, providing practical examples in each chapter. The book concludes by discussing the effect of heterogeneity on petrophysical

evaluations. As reducing heterogeneity is the only way to obtain accurate carbonate reservoir characteristics at the regional scale, the book offers an important reference guide for all geologists, engineers, and modelers working with subsurface data.

Carbonate Sequence Stratigraphy

Robert G. Loucks 1983-04-15 Hardcover plus Foldouts

Carbonate Depositional Environments

Peter A. Scholle 1983 This is the book you need to improve your interpretations of carbonates. Using a systematic treatment of the entire subject of carbonate depositional environments, this unique book is specifically designed for use by the non-specialist -- the petroleum geologist or field geologist -- who uses carbonate depositional environments in facies reconstructions and environmental interpretations. This classic work, covering settings from non-marine to

deep water, focuses on the recognition of depositional environments with extensive use of color diagrams and photographs of sedimentary structures and facies assemblages. Although the ultimate purpose of this text is to improve exploration for oil, gas, and mineral deposits, it also includes environments not normally considered to be particularly prospective for oil and gas in an attempt to provide as complete a framework as possible for recognition of environments. Suitable for use as a textbook, this book is also an invaluable reference for the specialist or advanced graduate student. It provides perspective on large-scale influences on carbonate depositional environments such as tectonic patterns, fluctuations of sea level, variations of climate, and evolutionary patterns of organisms. --

Advances in Carbonate Exploration and Reservoir Analysis Jo Garland 2012

Carbonate reservoirs contain an increasingly important percentage of the world's hydrocarbon reserves. This volume presents key recent advances in carbonate exploration and reservoir analysis.

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.

Aquifer Characterization Techniques
Robert G. Maliva 2016-05-26 This book presents an overview of techniques that are available to characterize sedimentary aquifers. Groundwater flow and solute transport are strongly affected by aquifer heterogeneity. Improved aquifer characterization can allow for a better conceptual understanding of aquifer systems, which can lead to more accurate groundwater models and successful water management solutions, such as contaminant remediation and managed aquifer recharge systems. This book has an applied perspective in that it considers the practicality of techniques for actual groundwater management and development projects in terms of costs, technical

resources and expertise required, and investigation time. A discussion of the geological causes, types, and scales of aquifer heterogeneity is first provided. Aquifer characterization methods are then discussed, followed by chapters on data upscaling, groundwater modelling, and geostatistics. This book is a must for every practitioner, graduate student, or researcher dealing with aquifer characterization .

Sedimentary and Evolutionary Cycles

U. Bayer 2006-01-21

Microfacies Analysis of Limestones E. Flügel 1982-04

Quantifying the Evolution of Early Life

Marc Laflamme 2011-02-28 This volume provides a detailed description of a wide range of numerical, statistical or modeling techniques and novel instrumentation separated into individual chapters written by paleontologists with expertise in the given methodology.

Each chapter outlines the strengths and limitations of specific numerical or technological approaches, and ultimately applies the chosen method to a real fossil dataset or sample type. A unifying theme throughout the book is the evaluation of fossils during the prologue and epilogue of one of the most exciting events in Earth History: the Cambrian radiation.

Origin of Carbonate Sedimentary Rocks

Noel P. James 2015-08-17 This textbook provides an overview of the origin and preservation of carbonate sedimentary rocks. The focus is on limestones and dolostones and the sediments from which they are derived. The approach is general and universal and draws heavily on fundamental discoveries, arresting interpretations, and keystone syntheses that have been developed over the last five decades. The book is designed as a teaching tool for upper level undergraduate classes, a

fundamental reference for graduate and research students, and a scholarly source of information for practicing professionals whose expertise lies outside this specialty. The approach is rigorous, with every chapter being designed as a separate lecture on a specific topic that is encased within a larger scheme. The text is profusely illustrated with all colour diagrams and images of rocks, subsurface cores, thin sections, modern sediments, and underwater seascapes. Additional resources for this book can be found at:

www.wiley.com/go/james/carbonaterocks

Earth Materials Kevin Hefferan
2022-06-08 Earth Materials Earth materials encompass the minerals, rocks, soil and water that constitute our planet and the physical, chemical and biological processes that produce them. Since the expansion of computer technology in the last two decades of the twentieth century, many

universities have compressed or eliminated individual course offerings such as mineralogy, optical mineralogy, igneous petrology, sedimentology and metamorphic petrology and replaced them with Earth materials courses. Earth materials courses have become an essential curricular component in the fields of geology, geoscience, Earth science, and many related areas of study. This textbook is designed to address the needs of a one- or two-semester Earth materials course, as well as individuals who want or need an expanded background in minerals, rocks, soils and water resources. Earth Materials, Second Edition, provides: Comprehensive descriptive analysis of Earth materials Color graphics and insightful text in a logical integrated format Field examples and regional relationships with graphics that illustrate concepts discussed Examples of how concepts discussed can be used to

address real world issues
Contemporary references from current scientific journals related to developments in Earth materials research Summative discussions of how Earth materials are interrelated with other science and non-science fields of study Additional resources, including detailed descriptions of major rock-forming minerals and keys for identifying minerals using macroscopic and/or optical methods, are available online at www.wiley.com/go/hefferan/earthmaterials Earth Materials, Second Edition, is an innovative, visually appealing, informative and readable textbook that addresses the full spectrum of Earth materials.

Neritic Carbonate Sediments in a Temperate Realm Noel P. James

2010-10-05 This book is the first comprehensive documentation and interpretation of modern neritic carbonate sediments on the southern Australian continental margin, the

largest cool-water carbonate depositional system on the globe. The approach is classical but the information is new. A brief chapter of introduction is followed by a section that describes the setting of the continental margin in terms of the regional geology, its evolution through time, the climate, and the complex oceanography. The setting is further explored in chapter 3 that outlines the Pleistocene history of sedimentation in this region. This is particularly important since many of the surficial sediments have a partial older history. The following section on the carbonate factory describes in detail the nature of the animals and plants that determine the nature of the sediments and the environmental conditions that control their distribution. The shelf itself cannot be discussed in isolation and thus a short chapter on the marginal marine environment is presented. The core of the book comprises two

chapters that document the suite of depositional facies and their composition and then the suite of depositional environments where these sediments are found. The variety of deposits in this vast area is such that three chapters are devoted to the character of the materials on the southwestern shelf the south Australian sea and the southeastern shelf. The diagenesis that affects these sediments is tackled in a chapter after all the attributes are documented because they are intimately linked to different controls. The book finishes with a summary chapter that also addresses the various controls on sedimentation and models the effects to be expected when these are changed outside those present in the current realm.

Audience: The book is an invaluable source of information about this vast region and will be a critical reference for researchers, graduate students, and professionals engaged

in marine and environmental research. It will be of particular importance for geologists interpreting the ancient rock record.

Microfacies of Carbonate Rocks Erik Flügel 2010-07-08 This unparelled reference synthesizes the methods used in microfacies analysis and details the potential of microfacies in evaluating depositional environments and diagenetic history, and, in particular, the application of microfacies data in the study of carbonate hydrocarbon reservoirs and the provenance of archaeological materials. Nearly 230 instructive plates (30 in color) showing thin-section photographs with detailed explanations form a central part of the content. Helpful teaching-learning aids include detailed captions for hundreds of microphotographs, boxed summaries of technical terms, many case studies, guidelines for the determination and evaluation of microfacies criteria,

self-testing exercises for recognition and characterization skills, and more

Proceedings of the International Field Exploration and Development Conference 2017 Zhan Qu 2018-07-11

This book presents selected papers from the 7th International Field Exploration and Development Conference (IFEDC 2017), which focus on upstream technologies used in oil & gas development, the principles of the process, and various design technologies. The conference not only provides a platform for exchanging lessons learned, but also promotes the development of scientific research in oil & gas exploration and production. The book will benefit a broad readership, including industry experts, researchers, educators, senior engineers and managers.

Microfacies of Carbonate Rocks Erik Flügel 2004 Accompanying CD-ROM contains ... "an alphabetical list of about 14,000 references on carbonate

rocks ... and visual comparison charts for percentage estimation." -- p. vi.

Guidelines for Analysis and Description of Soil and Regolith Thin Sections Georges Stoops 2021-01-07 A

revised guide to the study and of soil and regolith thin sections A specialized system of terms and concepts must be used to accurately and effectively distinguish and name the microscopic features of soils and regoliths. With a comprehensive, consistent terminology at their disposal, researchers may compare, store and discuss new data easily and with less risk of error. The second edition of Guidelines for Analysis and Description of Soil and Regolith Thin Sections has been assembled to address this need, offering a practical system of analysis and description to those working with soil and regolith materials. This essential resource includes: An introduction to micromorphology and

its practice Guidelines for the study of thin sections Sections covering the various microscopic features of soils and regoliths Illustrative graphics and colour micrographs Suggested description schemes and data presentation tips By providing an economical, navigable system for the study and documentation of soils and regoliths, Guidelines for Analysis and Description of Soil and Regolith Thin Sections, second edition, offers invaluable guidance for soil scientists, geologists, ecologists, archaeologists and all those concerned with micromorphology. *Physics of Petroleum Reservoirs* Xuetao Hu 2017-08-08 This book introduces in detail the physical and chemical phenomena and processes during petroleum production. It covers the properties of reservoir rocks and fluids, the related methods of determining these properties, the phase behavior of hydrocarbon mixtures, the microscopic mechanism

of fluids flowing through reservoir rocks, and the primary theories and methods of enhancing oil recovery. It also involves the up-to-date progress in these areas. It can be used as a reference by researchers and engineers in petroleum engineering and a textbook for students majoring in the area related with petroleum exploitation.

Ceramic Petrography: The Interpretation of Archaeological Pottery & Related Artefacts in Thin Section Patrick Sean Quinn 2013-02-15 Thin section ceramic petrography is a versatile interdisciplinary analytical tool for the characterization and interpretation of archaeological pottery. Using over 200 photomicrographs of thin sections from a diverse range of artefacts, time periods and geographic regions, this provides comprehensive guidelines for their study within archaeology.

Carbonate Reservoir Characterization

F. Jerry Lucia 2007-11-30 F. Jerry Lucia, working in America's main oil-rich state, has produced a work that goes after one of the holy grails of oil prospecting. One main target in petroleum recovery is the description of the three-dimensional distribution of petrophysical properties on the interwell scale in carbonate reservoirs. Doing so would improve performance predictions by means of fluid-flow computer simulations. Lucia's book focuses on the improvement of geological, petrophysical, and geostatistical methods, describes the basic petrophysical properties, important geology parameters, and rock fabrics from cores, and discusses their spatial distribution. A closing chapter deals with reservoir models as an input into flow simulators. Geological Core Analysis Vahid Tavakoli 2018-04-02 This book offers a compact guide to geological core analysis, covering both theoretical

and practical aspects of geological studies of reservoir cores. It equips the reader with the knowledge needed to precisely and accurately analyse cores. The book begins by providing a description of a coring plan, coring, and core sampling and continues with a sample preparation for geological analysis. It then goes on to explain how the samples are named, classified and integrated in order to understand the geological properties that dictate reservoir characteristics. Subsequently, porosity and permeability data derived from routine experiments are combined to define geological rock types and reduce reservoir heterogeneity. Sequence stratigraphy is introduced for reservoir zonation. Core log preparation is also covered, allowing reservoirs to be analysed even more accurately. As the study of core samples is the only way to accurately gauge reservoir properties, this book provides a useful guide for all

geologists and engineers working with subsurface samples.

New Technologies in the Oil and Gas Industry Jorge Salgado Gomes

2012-10-31 Oil and gas are the most important non-renewable sources of energy. Exploring, producing and managing these resources in compliance with HSE standards are challenging tasks. New technologies, workflows and procedures have to be implemented. This book deals with some of these themes and describes some of the advanced technologies related to the oil and gas industry from HSE to field management issues. Some new technologies for geo-modeling, transient well testing and digital rock physics are also introduced. There are many more technical topics to be addressed in future books. This book is aimed at researchers, petroleum engineers, geoscientists and people working within the petroleum industry.

Stylolites: Their Nature and Origin

Paris Buell Stockdale 1921

Chemical, Mineralogical and Isotopic Studies of Diagenesis of Carbonate and Clastic Sediments Ihsan Al-Aasm

2021-06-10 Diagenesis of carbonates and clastic sediments encompasses the biochemical, mechanical, and chemical changes that occur in sediments subsequent to deposition and prior to low-grade metamorphism. These parameters which, to a large extent, control diagenesis in carbonates and clastic sediments include primary composition of the sediments, depositional facies, pore water chemistry, burial-thermal and tectonic evolution of the basin, and paleo-climatic conditions. Diagenetic processes involve widespread chemical, mineralogical, and isotopic modifications affected by the original mineralogy of carbonate and clastic sediments. These diagenetic alterations will impose a major control on porosity and permeability and hence on hydrocarbon reservoirs,

water aquifers, and the presence of other important economic minerals. In this Special Issue, we have submissions focusing on understanding the interplay between the mineralogical and chemical changes in carbonates and clastic sediments and the diagenetic processes, fluid flow, tectonics, and mineral reactions at variable scales and environments from a verity of sedimentary basins. Quantitative analyses of diagenetic reactions in these sediments using a variety of techniques are essential for understanding the pathways of these reactions in different diagenetic environments.

Magnetic Susceptibility Application

A.C. Da Silva 2015-10-14 Magnetic susceptibility (MS) is a tool frequently used by geologists on sediments or rocks to perform correlations and sea-level or climatic reconstructions. Applied measurements are made on unoriented, bulk samples and bulk MS is mostly

influenced by the magnetic mineral content of the rock and often interpreted as influenced by detrital inputs. Magnetic data acquisition is fast and straightforward and this allows the high-resolution sampling needed for palaeoclimatic research (e.g. spectral analysis). However, the link with detrital inputs is not always preserved and the impact of diagenesis on the final MS signal can blur primary information. This volume includes contributions dealing with the origin of the magnetic minerals, and the application of MS as a palaeoenvironmental or palaeoclimatic proxy and also as a tool to provide astronomical calibration in order to improve the chronology of selected time intervals.

Karst Hydrogeology, Geomorphology and Caves

Francisco Gutierrez 2022-06-21 Karst Hydrogeology, Geomorphology and Caves A Comprehensive Resource Covering All Aspects of Karst Hydrogeology, Geomorphology, and

Caves This essential book covers all physical, chemical, and geological aspects of karst science. It reviews current knowledge on hydrogeology, geomorphology and caves in karst, based on the vast existing literature and investigations carried out by the authors worldwide. The different topics are profusely illustrated with color figures and images from all continents and climates, showing the scientific and aesthetic appeal of karst environments. The book covers in a systematic way the significant features of karst rocks, the chemistry and kinetics of their dissolution, the rate and distribution of karst denudation, the unique hydrogeology of karst terrains, the landforms endemic to karst, the morphology of caves and their diverse sedimentary records, and the multiple processes that lead to the formation of underground voids. Overall, the work reflects the increasing recognition of karst as a

fundamental part of the Earth's dynamic systems, and helps readers understand this multidisciplinary field from a holistic and nuts-and-bolts perspective. Some of the ideas discussed within the book include: How karst is gaining importance for human development, because of its valuable resources (groundwater) and associated environmental problems (impacts and hazards) The enormous technological developments achieved in recent years Recent major breakthroughs in the field and their influence on other scientific disciplines The central role played by karst science for understanding and mitigating global environmental issues (global warming, depletion of resources, human-induced hazards) For all scientists working in karst, and for students and lecturers of karst-related programs, this book serves as a valuable all-in-one source. It is also a valuable resource for professional hydrogeologists, the

petroleum industry, environmental geologists, and of course speleologists, the last true geographic explorers in the world.

Rhodolith/Maërl Beds: A Global

Perspective Rafael Riosmena-Rodríguez

2016-10-07 Rhodolith beds are recognized internationally as a unique ecosystem, and they are the focus of this interdisciplinary book. These marine beds occur worldwide, from the tropics to the poles, ranging in depth from intertidal to deep subtidal habitats and they are also represented in extensive fossil deposits. In the light of international interest in rhodoliths and maerl concerning their role in coastal ecosystems and with respect to biodiversity, fisheries, and the production of sediment, this book provides the most comprehensive view possible. As readers will discover, rhodoliths/maerl are fundamental to a range of ecological processes, acting as ecosystem engineers including

playing key roles in recruitment and providing nursery habitats. Rhodoliths/maerl have been used commercially in some parts of the world, and they are understood to be vulnerable to coastal modifications and human-induced change, and hence their status may serve as an indicator of ecosystem health. Rhodoliths/maerl contribute to global carbon budgets although the extent remains to be evaluated, as do the potential impacts of changing global climates and ocean acidification.

Sequence Stratigraphy of the Lower Miocene Moghra Formation in the Qattara Depression, North Western Desert, Egypt

Safiya M. Hassan
2013-06-12 The Qattara Depression is part of the Northwestern Desert in Egypt and is home to the second lowest point in Africa at -133 meters below sea level. Therefore, before any projects can be carried out in this area, we must first understand the geology of the land. The present

study deals with the high-resolution sequence stratigraphic analysis of the Lower Miocene Moghra Formation outcrops in the Qattara Depression Region. The literature on the sedimentology and sequence stratigraphy of the Moghra Formation has been sparse to date, despite some excellent work over the years by academic and petroleum workers. Moreover, the area studied is within what was once a front-line of World War II, where mine fields and war relics are scattered and cover wide reaches. This has resulted in limited geologic mapping in the past. Thus, great attention is paid in this study to establishing a robust sedimentology and high-resolution sequence stratigraphic framework for the Lower Miocene Moghra Formation. Included are works based on outcrops and, most importantly, new sedimentological and chronostratigraphic information not previously available.

Carbonate Sedimentology Maurice E. Tucker 2009-07-17 Carbonate rocks (limestones and dolomites) constitute a major part of the geological column and contain not only 60% of the world's known hydrocarbons but also host extensive mineral deposits. This book represents the first major review of carbonate sedimentology since the mid 1970's. It is aimed at the advanced undergraduate -postgraduate level and will also be of major interest to geologists working in the oil industry. Carbonate Sedimentology is designed to take the reader from the basic aspects of limestone recognition and classification through to an appreciation of the most recent developments such as large scale facies modelling and isotope geochemistry. Novel aspects of the book include a detailed review of carbonate mineralogy, non-marine carbonate depositional environments and an in-depth look at carbonate

deposition and diagenesis throughgeologic time. In addition, the reviews of individual depositional systems stress a process-based approach rather than one centered on simple comparative sedimentology. The unique quality of this book is that it contains integrated reviews of carbonate sedimentology and diagenesis, within one volume.

Petrology 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.

Taphonomy Peter A. Allison 2010-11-03 Taphonomic bias is a pervasive feature of the fossil record. A pressing concern, however, is the extent to which taphonomic processes have varied through the ages. It is one thing to work with a biased data set and quite another to work with a

bias that has changed with time. This book includes work from both new and established researchers who are using laboratory, field and data-base techniques to characterise and quantify the temporal and spatial variation in taphonomic bias. It may not provide all the answers but it will at least shed light on the right questions.

Sustainable Geoscience for Natural Gas SubSurface Systems David A. Wood 2021-10-30 Sustainable Geoscience for Natural Gas SubSurface Systems delivers many of the scientific fundamentals needed in the natural gas industry, including coal-seam gas reservoir characterization and fracture analysis modeling for shale and tight gas reservoirs. Advanced research includes machine learning applications for well log and facies analysis, 3D gas property geological modeling, and X-ray CT scanning to reduce environmental hazards. Supported by corporate and academic

contributors, along with two well-distinguished editors, the book gives today's natural gas engineers both fundamentals and advances in a convenient resource, with a zero-carbon future in mind. Includes structured case studies to illustrate how new principles can be applied in practical situations Helps readers understand advanced topics, including machine learning applications to optimize predictions, controls and improve knowledge-based applications Provides tactics to accelerate emission reductions Teaches gas fracturing mechanics aimed at reducing environmental impacts, along with enhanced oil recovery technologies that capture carbon dioxide

Facies Models Roger G. Walker 1984

Seismic Imaging of Carbonate

Reservoirs and Systems Gregor Paul Eberli 2004

Cretaceous Climate Events and Short-Term Sea-Level Changes M. Waple

2020 Sea-level constitutes a critical planetary boundary for geological processes and human life. Sea-level fluctuations during major greenhouse phases are still enigmatic and strongly discussed in terms of changing climate systems. The geological record of the Cretaceous greenhouse period provides a deep-time view on greenhouse-phase Earthsystem processes that facilitates a much better understanding of the causes and consequences of global, geologically short-term, sea-level changes. In particular, Cretaceous hothouse periods can serve as a laboratory to better understand a near-future greenhouse Earth. This volume presents high-resolution sea-level records from globally distributed sedimentary archives of the Cretaceous involving a large group of scientists from the International Geoscience Programme IGCP 609. Marine to non-marine sedimentary successions

were analysed for revised age constraints, the correlation of global palaeoclimate shifts and sea-level changes, tested for climate-driven cyclicities, and correlated within a high-resolution stratigraphic framework of the Geological Timescale. For hothouse periods, the hypothesis of significant global groundwater-related sea-level change, i.e. aquifer-eustasy as a major process, is reviewed and substantiated.

Encyclopedia of Sedimentology Rhodes W. Fairbridge 1978-11 Scholarly work on sedimentology. Each article is signed and has a bibliography. Illustrated. Indexed.

Geology of Carbonate Reservoirs Wayne M. Ahr 2008-08-11 An accessible resource, covering the fundamentals of carbonate reservoir engineering Includes discussions on how, where and why carbonate are formed, plus reviews of basic sedimentological and stratigraphic principles to explain

carbonate platform characteristics and stratigraphic relationships Offers a new, genetic classification of carbonate porosity that is especially useful in predicting spatial distribution of pore networks. Includes a solution manual Microfacies of Carbonate Rocks Erik Flügel 2013-11-11 This unparelled reference synthesizes the methods used in microfacies analysis and details the potential of microfacies in evaluating depositional environments and diagenetic history, and, in particular, the application of microfacies data in the study of carbonate hydrocarbon reservoirs and the provenance of archaeological materials. Nearly 230 instructive plates (30 in color) showing thin-section photographs with detailed explanations form a central part of the content. Helpful teaching-learning aids include detailed captions for hundreds of microphotographs, boxed summaries of

technical terms, many case studies,
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skills, and more