

# Geology Of Carbonate Reservoirs The Identification Description And Characterization Of Hydrocarbon Reservoirs In Carbonate Rocks

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Carbonates - Linda Pastero 2019-03-21

A multidisciplinary collection of papers dealing with many aspects of the wide world of carbonates, from a geological interpretation to their environmental exploitation and biological application, keeping an eye on the fundamentals of crystal growth.

**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.

*The Geology of Kuwait* - Abd el-aziz Khairy Abd el-aal 2022-12-26

This open access book contains a set of chapters covering all aspects of geosciences related to Kuwait and adjacent regions, including Iran, Saudi Arabia and the Arab Gulf states. It covers basic information about the geology including a wide range of geoscientific disciplines such as marine geology, structural geology, hydrogeology and geophysics related to the region. This book is aimed at researchers and students, as well as professionals in the field of hazard mitigation and petroleum exploration.

Anatomy of a Giant Carbonate Reservoir - Stephen C. Ruppel 2013-02-20

Hardcover plus DVD

Encyclopedia of Geology - 2020-12-16

Encyclopedia of Geology, Second Edition presents in six volumes state-of-the-art reviews on the various aspects of geologic research, all of which have moved on considerably since the writing of the first edition. New areas of discussion include extinctions, origins of life, plate tectonics and its influence on faunal provinces, new types of mineral and hydrocarbon deposits, new methods of dating rocks, and geological processes. Users will find this to be a fundamental resource for teachers and students of geology, as well as researchers and non-geology professionals seeking up-to-date reviews of geologic research. Provides a comprehensive and accessible one-stop shop for information on the subject of geology, explaining methodologies and technical jargon used in the field

Highlights connections between geology and other physical and biological sciences, tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study

**Fuzzy Engineering and Operations Research** - Bing-Yuan Cao 2012-06-30

"Fuzzy Engineering and Operations Research" is the edited outcome of the 5th International Conference on Fuzzy Information and Engineering (ICFIE2011) held during Oct. 15-17, 2011 in Chengdu, China and by the 1st academic conference in establishment of Guangdong Province Operations Research Society (GDORSC) held on Oct. 20, 2011 in Guangzhou, China. The 5th ICFIE2011, built on the success of previous conferences, and the GDORC, first held, are major Symposiums, respectively, for scientists, engineers practitioners and Operation Research (OR) researchers presenting their updated results, developments and applications in all areas of fuzzy information and engineering and OR. It aims to strengthen relations between industry research laboratories and universities, and to create a primary symposium for world scientists in Fuzziology and OR fields. The book contains 62 papers and is divided into five main parts: "Fuzzy Optimization, Logic and Information", "The mathematical Theory of Fuzzy Systems", "Fuzzy Engineering Applications and Soft Computing Methods", "OR and Fuzziology" and "Guess and Review".

*Multi-scale Quantitative Diagenesis and Impacts on Heterogeneity of Carbonate Reservoir Rocks* - Fadi Henri Nader 2016-09-30

This book is both a review and a look to the future, highlighting challenges for better predicting quantitatively the impact of diagenesis on reservoir rocks. Classical diagenesis studies make use of a wide range of descriptive analytical techniques to explain specific, relatively time-framed fluid-rock interaction processes, and deduce their impacts on reservoir rocks. Future operational workflows will consist of constructing a conceptual diagenesis model, quantifying the related diagenetic phases, and modelling the diagenetic processes. Innovative approaches are emerging for applied quantitative diagenesis, providing numerical data that can be used by reservoir engineers as entry (input) data, and for validating results of numerical simulations. Geometry-based, geostatistical and geochemical modelling do not necessarily mimic natural processes, they rather provide reasonable solutions to specific problems.

Proceedings of the International Field Exploration and Development Conference 2021  
- Jia'en Lin 2022

This book focuses on reservoir surveillance and management, reservoir evaluation and dynamic description, reservoir production stimulation and EOR, ultra-tight reservoir, unconventional oil and gas resources technology, oil and gas well production testing, and geomechanics. This book is a compilation of selected papers from the 11th International Field Exploration and Development Conference (IFEDC 2021). The conference not only provides a platform to exchange experience, but also promotes the development of scientific research in oil & gas exploration and production. The main audience for the work includes reservoir engineer, geological engineer, enterprise managers, senior engineers as well as professional students.

*Profiles of Drug Substances, Excipients and Related Methodology* - 2016-02-26

Volumes in this widely revered series present comprehensive reviews of drug substances and additional materials, with critical review chapters that summarize information related to the characterization of drug substances and excipients. This organizational structure meets the needs of the pharmaceutical community and allows for the development of a timely vehicle for publishing review materials on this topic. The scope of the Profiles series encompasses review articles and database compilations that fall within one of the following six broad categories: Physical profiles of drug substances and excipients; Analytical profiles of drug substances and excipients; Drug metabolism and pharmacokinetic profiles of drug substances and excipients; Methodology related to the characterization of drug substances and excipients; Methods of chemical synthesis; and Reviews of the uses and applications for individual drug substances, classes of drug substances, or excipients. Contributions from leading authorities inform and update on all the latest developments in the field

*Abstracts of Public Administration, Development, and Environment* - 2008

**Seismic Imaging of Carbonate Reservoirs and Systems** - Gregor Paul Eberli 2004

**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.

Encyclopedia of Global Resources - Craig W. Allin 2010

The topic of our natural resources has become an important issue over the last few years. The abundance of some (and scarcity of others) has sparked many a debate. The four volumes in this set discuss not only the aspects of the resources themselves, but their economic and social impact as well. Plus, complimentary

online access is provided through Salem Science.

Hydrogeological and Environmental Investigations in Karst Systems - Bartolomé Andreo 2014-09-22

WATER RESOURCES AND ENVIRONMENT provides a detailed introduction to the full range of advanced, multidisciplinary techniques used in the study of water resources from understanding individual aquifers to the protection and management of water in a sustainable way, compatible with the preservation of the environment. Based on a masters course from UNESCO's International Hydrological Program, this textbook is accompanied by color figures and graphics, illustrating clearly the content of the text and showing real examples from the field. Each chapter also contains a list of exercises and practical activities as well as case studies.

**Reservoir Quality of Clastic and Carbonate Rocks** - P.J. Armitage 2018-06-18

Reservoir quality is studied using a wide range of similar techniques in both sandstones and carbonates. Sandstone and carbonate reservoir quality both benefit from the study of modern analogues and experiments, but modelling approaches are currently quite different for these two types of reservoirs. There are many common controls on sandstone and carbonate reservoir quality, but also distinct differences due primarily to mineralogy. Numerous controversies remain including the question of oil inhibition, the key control on pressure solution and geochemical flux of material to or from reservoirs. This collection of papers contains case-study-based examples of sandstone and carbonate reservoir quality prediction as well as modern analogue, outcrop analogue, modelling and advanced analytical approaches.

*Fundamental Controls on Fluid Flow in Carbonates* - S.M. Agar 2015-02-02

This volume highlights key challenges for fluid-flow prediction in carbonate reservoirs, the approaches currently employed to address these challenges and developments in fundamental science and technology. The papers span methods and case studies that highlight workflows and emerging technologies in the fields of geology, geophysics, petrophysics, reservoir modelling and computer science. Topics include: detailed pore-scale studies that explore fundamental processes and applications of imaging and flow modelling at the pore scale; case studies of diagenetic processes with complementary perspectives from reactive transport modelling; novel methods for rock typing; petrophysical studies that investigate the impact of diagenesis and fault-rock properties on acoustic signatures; mechanical modelling and seismic imaging of faults in carbonate rocks; modelling geological influences on seismic anisotropy; novel approaches to geological modelling; methods to represent key geological details in reservoir simulations and advances in computer visualization, analytics and interactions for geoscience and engineering.

**The State-of-Art Techniques of Seismic Imaging for the Deep and Ultra-deep Hydrocarbon Reservoirs** - Jianping Huang 2022-11-11

**Energy Research Abstracts** - 1994-12

**Geology of Carbonate Reservoirs** - Wayne M. Ahr 2011-09-20

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

*Handbook of Petroleum Geoscience* - Soumyajit Mukherjee 2022-10-17  
HANDBOOK OF PETROLEUM GEOSCIENCE This reference brings together the latest industrial updates and research advances in regional tectonics and geomechanics. Each chapter is based upon an in-depth case study from a particular region, highlighting core concepts and themes as well as regional variations. Key topics discussed in the book are: Drilling solutions from the Kutch offshore basin Geophysical studies from a gas field in Bangladesh Exploring Himalayan terrain in India Tectonics and exploration of the Persian Gulf basin Unconventional gas reservoirs in the Bohemian Massif This book is an invaluable industry resource for professionals and academics working in and studying the fields of petroleum geoscience and tectonics.

Carbonate Petroleum Reservoirs - P.O. Roehl 2012-12-06

The case history approach has an impressive record of success in a variety of disciplines. Collections of case histories, casebooks, are now widely used in all sorts of specialties other than in their familiar application to law and medicine. The case method had its formal beginning at Harvard in 1871 when Christopher Lagdell developed it as a means of teaching. It was so successful in teaching law that it was soon adopted in medical education, and the collection of cases provided the raw material for research on various diseases. Subsequently, the case history approach spread to such varied fields as business, psychology, management, and economics, and there are over 100 books in print that use this approach. The idea for a series of Casebooks in Earth Sciences grew from my experience in organizing and editing a collection of examples of one variety of sedimentary deposits. The project began as an effort to bring some order to a large number of descriptions of these deposits that were so varied in presentation and terminology that even specialists found them difficult to compare and analyze. Thus, from the beginning, it was evident that something more than a simple collection of papers was needed. Accordingly, the nearly fifty contributors worked together with George de Vries Klein and me to establish a standard format for presenting the case histories.

**Proceedings of the International Field Exploration and Development Conference 2020** - Jia'en Lin 2021-06-17

This book is a compilation of selected papers from the 10th International Field Exploration and Development Conference (IFEDC 2020). The proceedings focuses on Reservoir Surveillance and Management, Reservoir Evaluation and Dynamic Description, Reservoir Production Stimulation and EOR, Ultra-Tight Reservoir, Unconventional Oil and Gas Resources Technology, Oil and Gas Well Production Testing, Geomechanics. The conference not only provides a platform to exchanges experience, but also promotes the development of scientific research in oil & gas exploration and production. The main audience for the work includes reservoir engineer, geological engineer, enterprise managers senior engineers as well as professional students.

*Seismic Characterization of Carbonate Platforms and Reservoirs* - J. Hendry 2021-08-17

Modern seismic data have become an essential toolkit for studying carbonate platforms and reservoirs in impressive detail. Whilst driven primarily by oil and gas exploration and development, data sharing and collaboration are delivering fundamental geological knowledge on carbonate systems, revealing platform geomorphologies and how their evolution on millennial time scales, as well as kilometric length scales, was forced by long-term eustatic, oceanographic or tectonic factors. Quantitative interrogation of modern seismic attributes in

carbonate reservoirs permits flow units and barriers arising from depositional and diagenetic processes to be imaged and extrapolated between wells. This volume reviews the variety of carbonate platform and reservoir characteristics that can be interpreted from modern seismic data, illustrating the benefits of creative interaction between geophysical and carbonate geological experts at all stages of a seismic campaign. Papers cover carbonate exploration, including the uniquely challenging South Atlantic pre-salt reservoirs, seismic modelling of carbonates, and seismic indicators of fluid flow and diagenesis.

Reservoir Development - M. Rafiqul Islam 2021-12-04

Sustainable Oil and Gas Development Series: Reservoir Development delivers research materials and emerging technologies that conform sustainability in today's reservoirs. Starting with a status of technologies available, the reference describes sustainability as it applies to fracturing fluids, particularly within unconventional reservoirs. Basement reservoirs are discussed along with non-energy applications of fluids. Sustainability considerations for reserve predication are covered followed by risk analysis and scaling guidelines for further field development. Rounding out with conclusions and remaining challenges, Sustainable Oil and Gas Development Series: Reservoir Development gives today and future petroleum engineers a focused and balanced path to strengthen sustainability practices. Gain insight to more environmentally-friendly protocols for both unconventional and basement reservoirs, including non-energy applications of reservoir fluids Determine more accurate reserves and keep budgets in line while focusing on emission reduction Learn from a well-known author with extensive experience in both academia and industry

*Carbonate Reservoir Rocks* - Ksenia I. Bagrintseva 2015-07-31

Most of the world's energy still comes from fossil fuels, and there are still many strides being made in the efficiency and cost effectiveness of extracting these important and increasingly more elusive natural resources. This is only possible if the nature of the emergence, evolution, and parameter estimation of high grade reservoir rocks at great depths is known and a theory of their forecast is developed. Over 60 percent of world oil production is currently associated with carbonate reservoir rocks. The exploration, appraisal and development of these fields are significantly complicated by a number of factors. These factors include the structural complexity of the carbonate complexes, variability of the reservoir rock types and properties within a particular deposit, many unknowns in the evaluation of fracturing and its spatial variability, and the preservation of the reservoir rock qualities with depth. The main objective of most studies is discovering patterns in the reservoir rock property changes of carbonate deposits of different genesis, composition and age. A short list of the unsolved issues includes: the role of facies environment in the carbonate formation; the major geologic factors affecting the formation of high-capacity reservoir rocks and preservation of their properties; recommendations as to the use of the new techniques in studies of the structural parameters; and establishing a correlation between the major evaluation parameters. The focus of this volume is to show the scientific and engineering community a revolutionary process. The author perfected an earlier developed methodology in studies of the void space structure (Bagrintseva's method, 1982). This methodology is based on carbonate rock saturation with luminophore and on special techniques in processing of photographs made under UV light. The luminophore technique was combined with the raster electron microscopy and its variation, the studies under the cathode luminescence regime. This combination enabled a more detailed study of the reservoir void

space, the nonuniformity in the open fracture evolution, their morphology, length and variability of openness. Over recent years these techniques have found wide application. Useful for the veteran engineer or scientist and the student alike, this book is a must-have for any geologist, engineer, or student working in the field of upstream petroleum engineering.

Oil Field Production Geology - Mike Shepherd 2009-09-20

"This book was written for students, new professionals in oil companies, and for anyone with an interest in reservoir geology. It explains the background to production geology in the context of oil field subsurface operations. It also gives practical guidelines as to how a production geologist can analyze the reservoir geology and fluid flow characteristics of an oil field with the aim of improving hydrocarbon recovery. Advice is given on how to search for the remaining oil volumes in a producing field, where these pockets are typically found, and then how to plan wells to target these volumes."--Publisher's description.

**Fossil Energy Update** - 1982

**New Advances in Geology and Engineering Technology of Unconventional Oil and Gas** - Yuwei Li 2022-09-21

Fine Reservoir Description - Huanqing Chen 2022-07-20

Fine Reservoir Description: Techniques, Current Status, Challenges and Solutions presents studies on fine oil and gas reservoirs, covering aspects of current status and progress, content and methods/techniques, as well as challenges and solutions through literature review and case studies of reservoirs, including volcanic rocks in the Songliao Basin, glutenite at the northwestern margin of the Junggar Basin, and sandstone in the Liaohe Basin, China. This book contains a large amount of data and illustrations. Provides a comprehensive overview of the latest advances in refined reservoir characterization for three types of reservoirs: high water cut, low permeability, and complex lithology Includes methods and techniques of fine reservoir description that are elaborated from nine aspects, such as fine stratigraphic division and correlation, fracture characterization and fine characterization of sand body Presents eight easy to use measures that are proposed to solve the problems of fine reservoir description

**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.

**Proceedings of the International Field Exploration and Development Conference 2019** - Jia'en Lin 2020-07-11

This book gathers selected papers from the 8th International Field Exploration and Development Conference (IFEDC 2019) and addresses a broad range of topics, including: Low Permeability Reservoir, Unconventional Tight & Shale Oil Reservoir, Unconventional Heavy Oil and Coal Bed Gas, Digital and Intelligent Oilfield, Reservoir Dynamic Analysis, Oil and Gas Reservoir Surveillance and Management, Oil and Gas Reservoir Evaluation and Modeling, Drilling and Production Operation, Enhancement of Recovery, Oil and Gas Reservoir Exploration. The conference not only provided a platform to exchange experiences, but also promoted the advancement of scientific research in oil & gas exploration and production. The book is chiefly intended for industry experts, professors, researchers, senior engineers, and enterprise managers.

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.

**Petro-physics and Rock Physics of Carbonate Reservoirs** - Kumar Hemant Singh 2019-10-16

This book presents selected articles from the workshop on "Challenges in Petrophysical Evaluation and Rock Physics Modeling of Carbonate Reservoirs" held at IIT Bombay in November 2017. The articles included explore the challenges associated with using well-log data, core data analysis, and their integration in the qualitative and quantitative assessment of petrophysical and elastic properties in carbonate reservoirs. The book also discusses the recent trends and advances in the area of research and development of carbonate reservoir characterization, both in industry and academia. Further, it addresses the challenging concept of porosity partitioning, which has huge implications for exploration and development success in these complex reservoirs, enabling readers to understand the varying orders of deposition and diagenesis and also to model the flow and elastic properties.

**Sequence Stratigraphy and Characterization of Carbonate Reservoirs** - Charles Kerans 1997

A critical component of reservoir management is the accurate characterization of the hydrocarbon asset, called reservoir characterization. The topic of this course is the process of sequence-stratigraphic interpretation and characterization of carbonate reservoirs. The authors believe that the two disciplines are so intimately related that the sequence framework should be considered a critical piece of the integrated puzzle.

Development Theories and Methods of Fracture-Vug Carbonate Reservoirs - Yang Li 2017-06-01

Development Theories and Methods of Fracture-Vug Carbonate Reservoirs explores the theories and methods for successful development of a fracture-vug reservoir by presenting the developmental strategies used in the Tahe oilfield. Some of the theories and methods of developing the Tahe fracture-vug reservoirs have been inspired by two China national research projects: The 'Basic research on development of fracture-vug carbonate reservoirs' (2006-2010), and the 'Basic research on production mechanism and oil recovery enhancement of fracture-vug carbonate reservoirs' (2011-2015), with support by the National Basic Research Program of China. These theories and methods have facilitated the successful development of the fracture-vug reservoir in the Tahe oilfield, providing effective technologies and inspirations to developing similar reservoirs everywhere. Provides information on both theoretical developments and technological innovations Applies the modern karst formation characterization and the fracture-vug hierarchical structure to geological investigations of fracture-vug carbonate reservoirs Introduces the karst facies-controlling 3D geologic modeling of fracture-vug reservoir formations Proposes the coupled-processing and equivalent multi-medium numerical simulation methods of fracture-vug reservoirs Presents development methodologies and techniques of water/gas flooding

**Seismic Attributes for Prospect Identification and Reservoir Characterization -**

Satinder Chopra 2007

Seismic attributes play a key role in exploration and exploitation of hydrocarbons. In *Seismic Attributes for Prospect Identification and Reservoir Characterization* (SEG Geophysical Developments No. 11), Satinder Chopra and Kurt J. Marfurt introduce the physical basis, mathematical implementation, and geologic expression of modern volumetric attributes including coherence, dip/azimuth, curvature, amplitude gradients, seismic textures, and spectral decomposition. The authors demonstrate the importance of effective color display and sensitivity to seismic acquisition and processing. Examples from different basins illustrate the attribute expression of tectonic deformation, clastic depositional systems, carbonate depositional systems and diagenesis, drilling hazards, and reservoir characterization. The book is illustrated generously with color figures throughout. "Seismic Attributes" will appeal to seismic interpreters who want to extract more information from data; seismic processors and imagers who want to learn how their efforts impact subtle stratigraphic and fracture plays; sedimentologists, stratigraphers, and structural geologists who use large 3D seismic volumes to interpret their plays within a regional, basinwide context; and reservoir engineers whose work is based on detailed 3D reservoir models.

Copublished with EAGE.

**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.

**Unconventional Petroleum Geology -** Caineng Zou 2012-12-31

*Unconventional Petroleum Geology* is the first book of its kind to collectively identify, catalog, and assess the exploration and recovery potential of the Earth's unconventional hydrocarbons. Advances in hydrocarbon technology and petroleum development systems have recently made the exploration of unconventional hydrocarbons—such as shale gas, tight sandstone oil and gas, heavy oil, tar sand, and coalbed methane—the hottest trend in the petroleum industry. Detailed case studies act as real-world application templates, making the book's concepts immediately practical and useful by exploration geologists. The logical and intuitive three-part approach of systematically identifying an unconventional

hydrocarbon, cataloguing its accumulation features, and assessing its exploration and recovery potential can be immediately implemented in the field—anywhere in the world. Provides a detailed assessment of the exploration and recovery potential of the full range of unconventional hydrocarbons More than 300 illustrations—many in full color—capture the detailed intricacies and associated technological advances in unconventional hydrocarbon exploration More than 20 case studies and examples from around the world conclude each chapter and aid in the application of key exploration and recovery techniques

**Evaporites -** John K. Warren 2016-05-18

The monograph offers a comprehensive discussion of the role of evaporites in hydrocarbon generation and trapping, and new information on low temperature and high temperature ores. It also provides a wealth of information on exploitable salts, in a comprehensive volume has been assembled and organized to provide quick access to relevant information on all matters related to evaporites and associated brines. In addition, there are summaries of evaporite karst hazards, exploitative methods and problems that can arise in dealing with evaporites in conventional and solution mining. This second edition has been revised and extended, with three new chapters focusing on ore minerals in different temperature settings and a chapter on meta-evaporites. Written by a field specialist in research and exploration, the book presents a comprehensive overview of the realms of low- and high-temperature evaporite evolution. It is aimed at earth science professionals, sedimentologists, oil and gas explorers, mining geologists as well as environmental geologists.

**Paleokarst -** Noel P. James 2012-12-06

Landscapes of the past have always held an inherent fascination for geologists because, like terrestrial sediments, they formed in our environment, not offshore on the sea floor and not deep in the subsurface. So, a walk across an ancient karst surface is truly a step back in time on a surface formed open to the air, long before humans populated the globe. Ancient karst, with its associated subterranean features, is also of great scientific interest because it not only records past exposure of parts of the earth's crust, but preserves information about ancient climate and the movement of waters in paleoaquifers. Because some paleokarst terranes are locally hosts for hydrocarbons and base metals in amounts large enough to be economic, buried and exhumed paleokarst is also of inordinate practical importance. This volume had its origins in a symposium entitled "Paleokarst Systems and Unconformities-Characteristics and Significance," which was organized and convened by us at the 1985 midyear meeting of the Society of Economic Paleontologists and Mineralogists on the campus of the Colorado School of Mines in Golden, Colorado. The symposium had its roots in our studies over the last decade, both separately and jointly, of a number of major and minor unconformities and of the diverse, and often spectacular paleokarst features associated with these unconformities.