



Carbonate Sedimentology

Richard Rezak, Dawn L. Lavoie



Carbonate Sedimentology:

Carbonate Sedimentology Maurice E. Tucker, V. Paul Wright, 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 1970s. 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 through geologic 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.

Carbonate Sedimentology and Sequence Stratigraphy Wolfgang Schlager, 2005 Sedimentology and stratigraphy are neighbors yet distinctly separate entities within the earth sciences. Sedimentology searches for the common traits of sedimentary rocks regardless of age as it reconstructs environments and processes of deposition and erosion from the sediment record. Stratigraphy by contrast concentrates on changes with time on measuring time and correlating coeval events. Sequence stratigraphy straddles the boundary between the two fields. This book dedicated to carbonate rocks approaches sequence stratigraphy from its sedimentologic background. This book attempts to communicate by combining different specialties and different lines of reasoning and by searching for principles underlying the bewildering diversity of carbonate rocks. It provides enough general background in introductory chapters and appendices to be easily digestible for sedimentologists and stratigraphers as well as earth scientists at large.

Carbonate Sedimentology and Petrology Peter A. Scholle, Noel P. James, J. F. Read, 1989 A Color Guide to the Petrography of Carbonate Rocks Peter A. Scholle, Dana S. Ulmer-Scholle, 2003

Carbonate Sedimentology and Sequence Stratigraphy Wolfgang Schlager, 2005 Sedimentology and stratigraphy are neighbors yet distinctly separate entities within the earth sciences. Sedimentology searches for the common traits of sedimentary rocks regardless of age as it reconstructs environments and processes of deposition and erosion from the sediment record. Stratigraphy by contrast concentrates on changes with time on measuring time and correlating coeval events. Sequence stratigraphy straddles the boundary between the two fields. This book dedicated to carbonate rocks approaches sequence stratigraphy from its sedimentologic background. This book attempts to communicate by combining different specialties and different lines of reasoning and by searching for principles underlying the bewildering diversity of carbonate rocks. It provides enough general background in introductory chapters and appendices to be easily digestible for sedimentologists and stratigraphers as well as earth scientists at large.

Recent Developments

in Carbonate Sedimentology in Central Europe German Müller, G.M. Friedman, 2012-12-06 In the field of sedimentary research ever increasing emphasis has been put on the investigations of carbonates and carbonate rocks during the past 30 years. It is thus quite natural that in Central Europe where classical carbonate investigations have already been carried out 100 years ago numerous scholars turned to the study of this sediment type. On the occasion of a visiting professorship of G.M. FRIEDMAN at the Laboratorium für Sedimentforschung Heidelberg University a seminar on Recent Developments of Carbonate Sedimentology in Central Europe was held in July 1967. 90 persons involved in carbonate investigations participated and 35 lectures were held. The present volume contains 30 papers summarizing the different subjects of the seminar. Of course these contributions only represent a small part of the work actually performed in the field of carbonate research in Central Europe. We believe however that they give a general survey of the work and the working methods employed in the different sectors of carbonate investigations. One of the purposes of the present symposium is to acquaint the English speaking countries with our recent results which usually due to the language barrier are not accessible to them.

Microfacies of Carbonate Rocks Erik Flügel, 2013-11-11 This unparalleled 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 for enclosed CD with 14000 references, self testing exercises for recognition and characterization skills and more. Carbonate Sedimentology, 1994

Origin of Carbonate Sedimentary Rocks Noel P. James, Brian Jones, 2015-06-15 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

Geochemistry of Sedimentary Carbonates J.W. Morse, F.T. Mackenzie, 1990-08-27 This book covers the more basic aspects of carbonate minerals and their interaction with aqueous solutions, modern marine carbonate formation and sediments, carbonate diagenesis, early marine meteoric and burial, the

global cycle of carbon and human intervention and the role of sedimentary carbonates as indicators of stability and changes in the Earth's surface environment. The selected subjects are presented with sufficient background information to enable the non-specialist to understand the basic chemistry involved. Tested on classes taught by the authors and approved by the students, this comprehensive volume will prove itself to be a valuable reference source to students, researchers and professionals in the fields of oceanography, geochemistry, petrology, environmental science and petroleum geology.

Carbonate Microfabrics Richard Rezak, Dawn L. Lavoie, 2012-12-06. *Carbonate Microfabrics* is the first attempt to bring together in one reference the application of microfabric analysis to the solution of problems in the fields of geology, geophysics and geotechnique. This book, the result of a symposium and workshop on carbonate microfabrics, explores the relationship of microfabrics to fundamental properties and processes in carbonates. *Carbonate Microfabrics* will be of particular interest to geologists and is intended to be of general interest to researchers in such related fields as geochemistry, geophysics and geotechnique.

Carbonate Systems During the Oligocene-Miocene Climatic Transition Maria Mutti, Werner E. Piller, Christian Betzler, 2011-09-14. The Oligocene and Miocene Epochs comprise the most important phases in the Cenozoic global cooling that led from a greenhouse to an icehouse Earth. Recent major advances in the understanding and time resolution of climate events taking place at this time as well as the proliferation of studies on Oligocene and Miocene shallow water neritic carbonate systems invite us to re-evaluate the significance of these carbonate systems in the context of changes in climate and Earth surface processes. Carbonate systems, because of a wide dependence on the ecological requirements of organisms producing the sediment, are sensitive recorders of changes in environmental conditions on the Earth surface. The papers included in this Special Publication address the dynamic evolution of carbonate systems deposited during the Oligocene and Miocene in the context of climatic and Earth surface processes, focusing on climatic trends and controls over deposition, temporal changes in carbonate producers and palaeoecology, carbonate terminology, facies, processes and environmental parameters including water temperature and production depth profiles, carbonate producers and their spatial and temporal variability and tectonic controls over architecture. This book is part of the International Association of Sedimentologists (IAS) Special Publications. The Special Publications from the IAS are a set of thematic volumes edited by specialists on subjects of central interest to sedimentologists. Papers are reviewed and printed to the same high standards as those published in the journal *Sedimentology* and several of these volumes have become standard works of reference.

Carbonate Sedimentology, 1978

Carbonate Sediments and Rocks Under the Microscope Anthony Adams, W.S. MacKenzie, 1998-04-01. This full color atlas illustrates a range of features not attempted in any general textbook and is designed as a laboratory manual to keep beside the microscope as an aid to identifying grain types and textures in carbonates.

Carbonate Reservoirs Clyde H. Moore, William J. Wade, 2013-08-12. The 2nd Edition of *Carbonate Reservoirs* aims to educate graduate students and industry professionals on the complexities of porosity evolution in carbonate

reservoirs In the intervening 12 years since the first edition there have been numerous studies of value published that need to be recognized and incorporated in the topics discussed A chapter on the impact of global tectonics and biological evolution on the carbonate system has been added to emphasize the effects of global earth processes and the changing nature of life on earth through Phanerozoic time on all aspects of the carbonate system The centerpiece of this chapter and easily the most important synthesis of carbonate concepts developed since the 2001 edition is the discussion of the CATT hypothesis an integrated global database bringing together stratigraphy tectonics global climate oceanic geochemistry carbonate platform characteristics and biologic evolution in a common time framework Another new chapter concerns naturally fractured carbonates a subject of increasing importance given recent technological developments in 3D seismic reservoir modeling and reservoir production techniques Detailed porosity classifications schemes for easy comparison Overview of the carbonate sedimentologic system Case studies to blend theory and practice

Carbonate Depositional Environments Peter A. Scholle, Don G. Bebout, Clyde H. Moore, 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

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

Sedimentary Carbonate Minerals F. Lippmann, 2012-12-06 and their identification obviates individual thermochemical studies on every genus The stability relations among sedimentary carbonate minerals are now more or less well known The common rock forming minerals calcite and dolomite are indeed stable phases in the pertinent systems Most other carbonate minerals of similar composition which are known to occur in the younger sediments are metastable with respect to calcite dolomite and magnesite This implies that the sedimentation of carbonates is determined only in part by stability relations Kinetic factors which allow the formation of metastable minerals appear to be

more important Although the diagenetic transformations leading to stable minerals take place by virtue of thermodynamic requirements the reactions themselves are triggered by kinetic factors as well Some of the reactions leading from metastable to stable carbonate assemblages are susceptible to simulation in the laboratory others e g dolomitization appear to be so slow that they can be studied only in analogous systems characterized by reasonable reaction rates In all attempts to explain the possible mechanisms of such reactions we must consider the crystal structures of the final products as well as of the starting materials This is another viewpoint from which mineralogy is important to carbonate petrology if we regard the crystal chemistry of minerals as a part of mineralogy A certain parallelism with clay mineralogy suggests itself

Carbonates Bailey A. Hughes, Thompson C. Wagner, 2013 In this text the authors present current research in the study of the sedimentology geographical distribution and economic importance of carbonates The topics discussed in this compilation include the alternative procedures for the synthesis of linear carbonates from alcohol and carbon dioxide functional polymers based on carbonates obtained from CO₂ an experiment using soil micromorphology and image analysis for physical redistribution of calcium carbonate in soil pore systems and the types of petroleum reservoirs in carbonate sediments of the Russian Basin

Carbonate Cementation in Sandstones Sadoon Morad, 2009-04-15 Carbonate cements are very common and abundant in clastic sequences They profoundly influence the quality of hydrocarbon reservoirs and supply important information on palaeoenvironments and the chemical composition and flow patterns of fluids in sedimentary basins Despite this importance their distribution patterns in time and space and their geochemical evolution are not yet deeply explored and elucidated This Special Publication contains 21 review papers and case studies on carbonate cementation in clastic sequences written by invited specialists on the subject These papers present a wide and deep coverage that enhance our knowledge about carbonate cementation in various clastic depositional environments tectonic settings and burial histories The book will be of special interest to researchers petroleum geologists and teachers and students at the postgraduate level If you are a member of the International Association of Sedimentologists for purchasing details please see <http://www.iasnet.org/publications/details.asp?code=SP26>

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