

# Microfacies Of Carbonate Rocks Analysis Interpretation And Application

A Color Guide to the Petrography of Carbonate Rocks Microfacies of Carbonate Rocks Origin of Carbonate Sedimentary Rocks Classification of Carbonate Rocks Microfacies of Carbonate Rocks Classification of Carbonate Rocks. a Symposium. Carbonate Sedimentology Classification of Carbonate Rocks A Color Atlas of Carbonate Sediments and Rocks Under the Microscope Diagenesis of Carbonate Rocks Classification of Carbonate Rocks Petroleum Geochemistry and Source Rock Potential of Carbonate Rocks Carbonate Rocks A Colour Atlas of Carbonate Sediments and Rocks Under the Microscope Potential Alkali Reactivity of Carbonate Rock from Six Quarries Classification of carbonate rocks Geochemistry of Carbonate Sediments and Sedimentary Carbonate Rocks Carbonate Stone Geochemistry of Carbonate Sediments and Sedimentary Carbonate Rocks Classification of Carbonate Rocks Peter A. Scholle Erik Flügel Noel P. James American Association of Petroleum Geologists. Research Committee Erik Flügel Maurice E. Tucker William Eugene Ham A. E. Adams Gerald M. Friedman William E. Ham J. G. Palacas A. E. Adams Alan D. Buck William E. Ham Donald Lee Graf K. Lal Gauri Donald Lee Graf Classification of Carbonate Rocks

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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 self testing exercises for recognition and characterization skills and more

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 wiley com go james carbonaterocks

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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 a 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

more than half of the world's petroleum is found in carbonate rocks for example in the middle east the former ussr and in north america these rocks show a bewildering diversity of grains and textures due in part to the wealth of different fossil organisms that have contributed to carbonate sedimentation and in part to a wide variety of diagenetic processes that can radically modify textures and obscure the depositional fabric careful petrographic study with a polarising microscope is a key element of any study of carbonate sediments as a companion to field or core logging and as a necessary precursor to geochemical analysis this atlas which illustrates in full color a range of features not attempted in any general textbook is designed as a laboratory manual to keep beside the microscope and as an aid to identifying grain types and textures in carbonates it will appeal alike to undergraduate and graduate students and to professionals in teaching institutions research laboratories and industry a color atlas of rocks and minerals in thin section w s mackenzie and a e adams

carbonate rocks have diverse characteristics they can be excellent reservoirs as well as prolific source rocks for oil oils from carbonate rocks commonly have distinctive bulk chemical and molecular characteristics that reveal their origin the papers collected here are descriptions and interpretations that is case histories of specific carbonate source rocks that range in age from precambrian to miocene

carbonate rocks

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radically modify textures and obscure the depositional fabric careful petrographic study with a polarizing microscope is a key element of any study of carbonate sediments as a companion to field or core logging and as a necessary precursor to geochemical analysis this atlas which illustrates in full colour a range of features not attempted in any general textbook is designed as a laboratory manual to keep beside the microscope as an aid to identifying grain types and textures in carbonates it will appeal alike to undergraduate and graduate students and to professionals in teaching institutions research laboratories and industry

a practical quantitative approach to conservation methodology what can be done about the harmful effects of industrial pollutants on carbonate stone monuments buildings and sites here is an important guide to this phenomenon of the twentieth century written by two conservation technology experts with an intimate knowledge of the restoration of major world monuments carbonate stone chemical behavior durability and conservation covers properties of carbonate rocks affecting the weathering of stone weathering mechanisms in polluted and natural environments plus biodeterioration mathematical modeling for reaction rates and durability factors the use of porosimetry in determining rock durability conservation methodologies from the real world the theory of neural networks and their application to correlate large volumes of chemical and physical data application of archaeology to geochronology

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