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Four carbonate microfacies are 1) Algal Foraminiferal Packstone microfacies of inner shelf 2) Mixed Bioclastic Wacke-Packstone microfacies of middle shelf 3) Benthic Foraminiferal Wacke-Packstone microfacies of middle-outer shelf and 4) Planktic-Benthic Foraminiferal Wacke-Packstone microfacies of outer shelf.

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Microfacies analysis and diagenetic fabric of Lockhart ...

The microfacies, detailed diagenesis, and stable isotope analysis of the carbonates, exposed at Jumara Dome, have been analysed to explore their impact on reservoir quality.

Microfacies, diagenesis, and stable isotope analysis of ...

Micrite as a component of carbonate rocks can occur as a matrix, as micrite envelopes around allochems or as peloids. Micrite can be generated by chemical precipitation, from disaggregation of peloids, or by micritization. The term was coined in 1959 by Robert Folk for his carbonate rock classification system.

Micrite - Wikipedia

The Dhurma Formation has been assigned

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a Middle Jurassic age (Bajocian - Bathonian - Callovian) and shows a distinct lateral facies variation where the carbonate rocks in the north are replaced by siliciclastics to the south (Powers et al., 1966).

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

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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

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Accompanying CD-ROM contains ... "an alphabetical list of about 14,000 references on carbonate rocks ... and visual comparison charts for percentage estimation." -- p. vi.

Carbonate rocks (limestones and dolomites) constitute a major part of the

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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 through geologic time. In addition, the reviews of individual

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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.

Advanced textbook outlining the physical, chemical, and biological properties of sedimentary rocks through petrographic microscopy, geochemical techniques, and field study.

This book is the outgrowth of a week-long conference on sandstone organized by the authors, first held at Banff, Alberta, in 1964 under the auspices of the Alberta Association of Petroleum Geologists and the University of Alberta, and again, in

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1965, at Bloomington, Indiana, under the sponsorship of the Indiana Geological Survey and the Department of Geology, Indiana University. A 2- page syllabus was prepared for the second conference and published by the Indiana Geological Survey. Continuing interest in and demand for the syllabus prompted us to update and expand its contents. The result is this book. We hope this work will be useful as a text or supplementary text for advanced undergraduate and graduate courses in sedimentation, sedimentary petrology, or general petrology and perhaps will be helpful to the teachers of such courses. Though we have focussed on sandstones we have necessarily included much of interest to students of all sediments. We hope also that it will be a useful reference work for the professional geologist, especially those concerned with petroleum, ground-water, and economic

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geology either in industry or government. Because the subject is so closely tied to surface processes it may also be of interest to geo morphologists and engineers who deal with beaches and rivers where sand is in transit.

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