

Stratigraphic Modeling and Interpretation: Geophysical Principles and Techniques

Education Course Note Series # 13

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**Stratigraphic Modeling And Interpretation Geophysical
Principles And Techniques Series Continuing Education
Course Notes No 13**

Douglas W. Lewis, David McConchie



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Stratigraphic Modeling and Interpretation Norman S. Neidell, 1979 Stratigraphic interpretation of seismic data requires that the seismic information be expressed in geological terms The strictly geological view of the earth is developed from surface observations guiding principles of geological evolution and subsurface information from bore holes Seismic measurements on the other hand define in some sense the subsurface geometry and give estimates of the acoustic impedance which is related to the rock velocities and densities

Carbonate Reservoir Characterization: A Geologic-Engineering Analysis, Part II S.J. Mazzullo, H.H. Rieke, G.V. Chilingarian, 1996-11-22 This second volume on carbonate reservoirs completes the two volume treatise on this important topic for petroleum engineers and geologists Together the volumes form a complete modern reference to the properties and production behaviour of carbonate petroleum reservoirs The book contains valuable glossaries to geologic and petroleum engineering terms providing exact definitions for writers and speakers Lecturers will find a useful appendix devoted to questions and problems that can be used for teaching assignments as well as a guide for lecture development In addition there is a chapter devoted to core analysis of carbonate rocks which is ideal for laboratory instruction Managers and production engineers will find a review of the latest laboratory technology for carbonate formation evaluation in the chapter on core analysis The modern classification of carbonate rocks is presented with petroleum production performance and overall characterization using seismic and well test analyses Separate chapters are devoted to the important naturally fractured and chalk reservoirs Throughout the book the emphasis is on formation evaluation and performance This two volume work brings together the wide variety of approaches to the study of carbonate reservoirs and will therefore be of value to managers engineers geologists and lecturers

Analytical Sedimentology Douglas W. Lewis, David McConchie, 2012-12-06 The first edition of Practical Sedimentology contained discussions of principles and techniques that could be applied to the analysis of sediments in the field and in laboratories sup Colleagues at the University of Canterbury and the University of New England Lismore have helped with practical When considering a revised edition we felt that it was inappropiate on their experiences with various methodologies dis propriate to restrict consideration to the simple and common cussed in this volume At the University of Canterbury we techniques because so many modern analyses of sediments are particularly grateful to K Swanson for advice on prepar use sophisticated and often expensive equipment to examine ing materials for scanning electron microscopy and paleonto sediments and sedimentary rocks A review of the wide range logical specimens to G Coates working at the university at of available techniques and equipment was not feasible in the the time of the first edition of Practical Sedimentology for same volume as a review of principles The original intent to compilation of and additions to the procedures for textural analysis and some tables and sketches to Ted Montague for produce a concise

summary of practical sediment studies in an inexpensive format was maintained but now in the form the bulk of the chapter on borehole sedimentology to Dr J **Oklahoma Geology Notes** ,1979 **Geophysics: Geologic interpretation of seismic data** Edward A. Beaumont,Norman H. Foster,1989 **Geologist's library** Gérard Sustrac,1984 *Arizona Geological Society Digest* Arizona Geological Society,1958 *Scientific, Engineering, and Medical Societies Publications in Print* ,1980 **World Oil** ,1984 *Frontiers in Geology and Ore Deposits of Arizona and the Southwest* Barbara Beatty,P. A. K. Wilkinson,1986 *Principles of Sedimentology and Stratigraphy* Sam Boggs,1995 Aimed at advanced undergraduates but suitable also for graduate students and professionals it covers processes of sedimentation describes the characteristics of sedimentary rocks formed in major sedimentary environments and discusses the fundamental principles of stratigraphy and basin analysis including recent developments in the important fields of magnetostratigraphy seismic stratigraphy sequence stratigraphy isotope stratigraphy and sea level analysis The book presents divergent views on controversial topics and is extensively referenced and up to date thus encouraging students to refer to recently published literature **Velocity Analysis on Multichannel Seismic Data** Bok S. Byun,1990 *Bulletin* Corpus Christi Geological Society,1994 *National Union Catalog* ,1981 ,1982 **National Union Catalog** ,1981 Includes entries for maps and atlases *Publications of the Institute of Geophysics* ,1996 *Exploration and Economics of the Petroleum Industry* ,1983 **Structural Concepts and Techniques: Detached deformation** ,1988 **Bulletin of the Atomic Scientists** ,1970-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *Stratigraphic Modeling and Interpretation* Norman S. Neidell,1980

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