

Exercises In Physical Stratigraphy And Sedimentology

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this laboratory manual contains a variety of practical exercises in physical stratigraphy and sedimentology although intended to follow the organization of the author's basics of physical stratigraphy and sedimentology the book is flexible enough to be used with virtually any text or teaching approach in each of the seven chapters exercises are preceded by background material that discusses the theory and principles related to the topic including numerous diagrams charts formulae and classification schemes topics include stratigraphic principles and correlation texture and grain size analysis sedimentary structures and rock descriptions and stratigraphic columns varying in length and complexity the exercises can be used with the limited rock and sediment collections at most colleges and universities

the role of climate as a primary control on stratigraphy is the cornerstone of this volume the emphasis on climate is in distinct contrast to most previous studies in which stratigraphic variability has been related to changes in sea level and in tectonic activity furthermore the findings derived from several years of detailed study of modern and ancient key geologic sections around the world indicate that traditional depositional models generally do not fully explain the origin of fossil fuels although the results of the studies presented in this volume are intended to contribute to the disciplines of sedimentary geology and stratigraphy the contributors recognize that their results may also contribute to a better understanding of global climate change the theoretical background of climate control on sediment supply and stratigraphy is presented in the

volume with this background in place detailed documentation and analysis of climate control on the lithologic variation of a single middle pennsylvanian

this concise volume offers one of the few modern treatments of stratigraphy and sedimentology featuring the use of the stratigraphic code and an analysis of the history of geology in the development of stratigraphic principles covers important processes that form sedimentary rocks explains the interpretation of rock sequences from outcrop scale to regional stratigraphic packages and synthesizes rock and sedimentary structure classification schemes presents the basic tools for interpreting sedimentary structures using a process approach to physical sedimentology and reveals stratigraphic relationships not found in other texts the text contains many illustrations which provide compilations of standard classifications hydrodynamic principles and processes of sedimentation recast in an easily understandable format

this memoir is the result of plans made after the first research symposium on seismic stratigraphy presented at the 1975 national convention of the american association of petroleum geologists selected reports from technical meetings since that time are also included foreword

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