Sedimentary Organic Matter

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a sound understanding of the global carbon cycle requires an appreciation of the various physico chemical and biological processes that determine the production distribution deposition and diagenesis of organic matter in the natural environment this book is a comprehensive interdisciplinary synthesis of this information coupled with an organic facies approach based on data from both microscopy and bulk organic geochemistry

sediments from the world s ocean floors and other water body basins hold a wealth of information about organic life as we know it organic matter productivity accumulation and preservation in recent and ancient sediments addresses focusing on the production accumulation and preservation of organic matter in marine and lacustrine sediments contributors to this important monograph cover a range of geologic ages from recent times back to the permian era as well as temperature and organic matter types this resource book will be of interest and benefit to petroleum explorationists and researchers as well as oceanographers marine and environmental scientists sedimentologists geochemists and paleontologists

this volume covers the formation and biogeochemistry of a variety of important sediment types from their initial formation through their conversion diagenesis to sedimentary rocks the volume deals with the chemical mineralogical and isotopic properties of sediments and sedimentary rocks and their use in interpreting the environment of formation and subsequent events in the history of sediments and the nature of the ocean atmosphere system through geological time reprinted individual volume from the acclaimed treatise on geochemistry 10 volume set isbn 0 08 043751 6 published in 2003 comprehensive and authoritative scope and focus reviews from renowned scientists across a range of subjects providing both overviews and new data supplemented by extensive bibliographies extensive illustrations and examples from the field

theory instrumentation nir analysis of sediment samples uses of nirs in palaeolimnology future perspectives summary references fly ash particles neil rose 319 12 introduction a brief history methods of extraction and enumeration temporal distribution spatial distribution source apportionment the future summary acknowledgements references part iii stable isotope techniques 13 application of stable isotope techniques to inorganic and biogenic carbonates emi ito 351 introduction nomenclature and systematics of lake water mg ca and sr ca ratios of lake water of dissolved inorganic carbon dic carbonates in lake sediments mollusks ostracodes charaphytes isotope analysis preparation of carbonate samples for isotope analysis conclusions summary acknowledgments references 14 carbon and oxygen isotope analysis of lake sediment cellulose methods and applications brent b wolfe thomas w d edwards richard j elgood kristina r m beuning 373 xi introduction stable isotope tracers in lake historical development methods key criteria for paleohydrologic reconstruction applications future research directions summary acknowledgements references nitrogen isotopes in palaeolimnology michael r talbot 15 401 introduction nitrogen in lakes forms and distribution nitrogen isotopes nitrogen isotope studies in palaeolimnology sampling and measurement some examples closing remarks summary acknowledgments references glossary acronyms and abbreviations 441 index 493 xiii preface the explosive growth of paleolimnology over the past two decades has provided impetus for the publication of this series of monographs detailing the numerous advances and new techniques being applied to the interpretation of lake histories this is the second volume in the

series and deals mainly with physical and geochemical analytical techniques

one of springer s major reference works this book gives the reader a truly global perspective it is the first major reference work in its field paleoclimate topics covered in the encyclopedia give the reader the capability to place the observations of recent global warming in the context of longer term natural climate fluctuations significant elements of the encyclopedia include recent developments in paleoclimate modeling paleo ocean circulation as well as the influence of geological processes and biological feedbacks on global climate change the encyclopedia gives the reader an entry point into the literature on these and many other groundbreaking topics

the book on deposition diagenesis and weathering of organic matter rich sediments is a summary of seven years of research work of the author at the institute of petroleum and organic geochemistry in j lich it contains a comparision of various depositional environments lakes deltas seas with respect to organic matter characteristics a special chapter on the deposition of the posidonia shale a summary of organic matter maturation and related petroleum generation and a chapter on the use of maturationparameters as calibration tools for numerical modelling of temperature histories of sedimentary basins also microscopic effects of petroleum generation and oil to gas cracking are treated the final chapters deal withcoals as source rocks for oil and gas and with the effects of weatheringon sediments which are rich in organic matter

this extensively updated new edition of the widely acclaimed treatise on geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry in addition the original volume 1 on meteorites comets and planets was expanded into two separate volumes dealing with meteorites and planets respectively these additions increased the number of volumes in the treatise from 9 to 15 with the index appendices volume remaining as the last volume volume 16 each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions as a result 27 were republished without major changes 66 were revised and 126 new chapters were added in a many faceted field such as geochemistry explaining and understanding how one sub field relates to another is key instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter six new volumes added and 66 updated from 1st edition the editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition the esteemed board of volume editors and editors in chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume

depositional models for organic carbon rich sediments have been the subjects of both great interest and great controversy for many years these sediments serve as the ultimate source of virtually all oil and gas they also represent the interface between biological and geological processes and provide critical evidence for the state of the atmosphere and oceans yet despite their importance and decades of research the origin of these sediments remains the source of vigorous disagreement the twelve papers in this volume represent the cutting edge of research in this topic they explore the origin of organic carbon rich sediments through a variety of techniques including sedimentology geochemistry paleontology and computer modeling all papers take multidisciplinary approaches to the topic and together they demonstrate the complex interconnected processes that trigger the deposition of organic carbon this book will appeal to geoscientists in many disciplines including explorers for petroleum who need models for source rock deposition organic and inorganic geochemists who study processes in water and sediment sedimentologists who interpret ancient deposition environments and climatologists and oceanographers who reconstruct the behavior of the ancient atmosphere and oceans

this textbook primarily introduces theories and methods of oil and gas resource exploration and is a core course for training modern oil and gas exploration professionals firstly compared to previous textbooks the content has been reconstructed integrating oil and gas geology with oil and gas exploration forming a complete system with the theory of hydrocarbon generation migration distribution and exploration methods which is more in line with students cognitive patterns secondly scientific research achievements and new theories and methods are promptly supplemented into it such as updating the content of hydrocarbon migration making its content both inherit the classics and keep pace with the times thirdly the practical teaching approach is strengthened keeping up with the development needs of the industry and integrating field cases of oil field enterprises into the teaching practice such as the development of the oil and gas charging model of the traps obtained a national invention patent which effectively solves the problem from the student to establish three dimensional space and temporal concepts this textbook can be used for both advanced undergraduate and graduate students majoring in petroleum resource exploration and is also a handy reference for a wide range of oil and gas geologists

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