

# Sedimentary Petrology- What is it?

- Study origin, occurrence, mineral comp. & texture of sed rks.
- Depositional environment usually not emphasized
- Emphasize sed rocks– their description & classification



# Sedimentary Petrology The Origin Of Sediments And Sedimentary Rocks

**Maurice E. Tucker**



## **Sedimentary Petrology The Origin Of Sediments And Sedimentary Rocks:**

Sedimentary Petrology: The origin of sediments and sedimentary rocks. 2d rev. ed Wolf von Engelhardt,

**Sedimentary Petrology** Maurice E. Tucker, 2001-06-29 The earlier editions of this book have been used by successive generations of students for more than 20 years and it is the standard text on the subject in most British universities and many others throughout the world The study of sediments and sedimentary rocks continues to be a core topic in the Earth Sciences and this book aims to provide a concise account of their composition mineralogy textures structures diagenesis and depositional environments This latest edition is noteworthy for the inclusion of 16 plates with 54 colour photomicrographs of sedimentary rocks in thin section These bring sediments to life and show their beauty and colorful appearance down the microscope they will aid the student enormously in laboratory petrographic work The text has been revised where necessary and the reference and further reading lists brought up to date New tables have been included to help undergraduates with rock and thin section description and interpretation New 16 page colour section will mean students do not need to buy Longman Atlas All illustrations redrawn to higher standard Complete revision of text new material on sedimentary geochemistry etc The Origin of Sediments and Sedimentary Rocks Wolf von Engelhardt, 1977 *Sedimentary Petrology.*

*Part 3. The Origin of Sediments and Sedimentary Rocks* Wolf Freiherr von Engelhardt, 1977 **Sedimentary Petrology: The origin of sediments and sedimentary rocks. 2d rev. ed** Wolf von Engelhardt, 1967 *Petrology of the Sedimentary Rocks* J. Greensmith, 2012-12-06 In the 75 years of the existence of this book the content and boundaries of sedimentary petrology have increased enormously It is doubtful if there are any areas of the subject described by the original authors which have remained untouched by the relatively recent onslaught by countless sedimentologists aided by a veritable armoury of sophisticated techniques Particular areas have always waxed and waned in popularity and some subjects such as heavy mineral studies which have been successively popular then unpopular appear of late to have had a new lease on life The development and application of relatively old techniques but now used in a sedimentological context often brings an upsurge and revival of interest in some rocks Isotope work has now become an integral part of the study of pelagic and phosphatic sediments and carbonate cements An understanding of burial diagenesis a much neglected area is slowly coming to the fore as electron microscopes and X rays delve into the mineralogical and textural complexities of ancient sediments Yet despite the zapping of minerals with electron beams and generating gases to pass into a mass spectrometer to paraphrase an erstwhile research student of mine the danger of this approach is that materials are analysed with scant regard to field relationships or petrographic control thus much genetic information is missing when interpretations are attempted Petrography is far from being archaic **Sedimentary Petrology. Pt. 3. the Origin of Sediments and Sedimentary Rocks** W. von Engelhardt, H. Fuchtbauer, G. Müller, 1977 **Sedimentary Petrology. Part 3. The Origin of Sediments and Sedimentary Rocks** Wolf Freiherr von Engelhardt, 1977 **Introduction to Sedimentology** Supriya

Sengupta,2017-10-05 A concise account of all major branches of sedimentary geology highlighting the connecting links between them Introduction Processes of sedimentation Sedimentary texture Sedimentary petrology Hydraulics sediment transportation and structures of mechanical origin Sedimentary environments and facies Tectonics and sedimentation Stratigraphy and sedimentation Basin analysis A synthesis References Index Petrology of Sedimentary Rocks Sam Boggs,2009-02-19 Advanced textbook outlining the physical chemical and biological properties of sedimentary rocks through petrographic microscopy geochemical techniques and field study **Geological Survey Professional Paper** ,1982 U.S. Geological Survey Professional Paper ,1968 *Introduction to Sedimentology* Supriya Sengupta,2017-10-05 A concise account of all major branches of sedimentary geology highlighting the connecting links between them Introduction Processes of sedimentation Sedimentary texture Sedimentary petrology Hydraulics sediment transportation and structures of mechanical origin Sedimentary environments and facies Tectonics and sedimentation Stratigraphy and sedimentation Basin analysis A synthesis References Index *Origin of Sedimentary Rocks* Harvey Blatt, Gerard V. Middleton, Raymond C. Murray,1980 **Algae from the Arid Southwestern United States** William Hewitt Thomas,1983 This report is a bibliography of papers pertaining to algae found in the arid southwestern United States Also included are some related papers that pertain to the habitats where the algae occur Following each reference is an annotation describing the contents of the paper The annotation in most cases consists of the author s abstract Sometimes we have written an abstract particularly for long review papers and books The report is organized by state California Nevada Utah etc and papers on algae are separated from related papers on their habitat Keywords are included for each paper and the bibliography is set up on microcomputer disk for searching by these keywords **Principles of Sedimentology and Stratigraphy** Sam Boggs,1987 **New Publications of the Geological Survey** Geological Survey (U.S.),1989 *Clay Materials Used in Construction* George M. Reeves,Ian Sims,J. C. Cripps,2006 Concluding the trilogy on geological materials in construction this authoritative volume reviews many uses of clays ranging from simple fills to sophisticated products Comprehensive and international coverage is achieved by an expert team including geologists engineers and architects Packed with information prepared for a wide readership this unique handbook is also copiously illustrated The volume is dedicated to the memory of Professor Sir Alec Skempton Various definitions of clay are explored Clay mineralogy is described plus the geological formation of clay deposits and their fundamental materials properties World and British clay deposits are reviewed and explained New compositional data are provided for clay formations throughout the stratigraphic column Investigative techniques and interpretation are considered ranging from site exploration to laboratory assessment of composition and engineering performance Major civil engineering applications are addressed including earthworks earthmoving and specialized roles utilizing clays Traditional earthen building is included and shown to dominate construction in places Clay based construction materials are detailed including bricks ceramics and cements The volume also includes a comprehensive

glossary     *A Color Guide to the Petrography of Carbonate Rocks* Peter A. Scholle, Dana S. Ulmer-Scholle, 2003  
              *Bibliography and Index of the Geology and Mineral Resources of Washington, 1963-1980* Connie Manson, Debbie  
Burnetti, 1983

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