

Fourth Edition

Sedimentary Petrology

Maurice E. Tucker
Stuart J. Jones



WILEY

Sedimentary Petrology

**José Arribas, Salvatore Critelli, Mark J.
Johnsson**



Sedimentary Petrology:

Procedures in Sedimentary Petrology Robert E. Carver, 1971 **Sedimentary Petrology** Maurice E. Tucker, Stuart J. Jones, 2023-03-07 Authoritative accessible and updated introduction to sedimentary rocks for undergraduate students

Sedimentary Petrology provides readers with a concise account of sedimentary rock composition mineralogy texture structure diagenesis and depositional environments The new edition of this classic text incorporates the many technological and analytical advances of the last decade revealing exciting details of processes such as microbial precipitation how microporosity is created within mudrocks and the chemical composition of foraminifera deposits which can be a key indicator for changing seawater temperature This fourth edition offers a comprehensive update and expansion of the previous editions with a new set of illustrations new references and further reading The new co author Stuart Jones has brought his considerable expertise in clastic sedimentology to the rewritten chapters on sandstones and mudrocks The addition of color images throughout the text will aid students immensely in their studies and petrographic fieldwork Sample topics covered in Sedimentary Petrology include Advances in modeling and programming to simulate depositional diagenetic conditions and controls which support field lab descriptions and interpretations Ocean acidification and the demise of coral reefs and the role of the oceans in carbon capture and storage Sedimentary ironstones and iron formations sedimentary phosphate deposits coal oil shale and petroleum and cherts and siliceous sediments Limestones evaporites volcanoclastic sediments sandstones conglomerates breccias and the effects of microplastics on marine organisms Aimed at undergraduates in geology and earth science Sedimentary Petrology is an excellent teaching and learning resource for introductory courses in sedimentary rocks

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

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

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

Petrology of Sedimentary Rocks Robert L. Folk, 1968

Sand and Sandstone F. J. Pettijohn, Paul E. Potter, Raymond Siever, 1987-05-20 The first edition appeared fourteen years ago Since then there have been significant advances in our science that warrant an updating and revision of Sand and Sandstone The main framework of the first edition has been retained so that the reader can begin with the mineralogy and textural properties of sands and sandstones progress through their organization and classification and their study as a body of rock to consideration of their origin provenance transportation deposition and lithification and finally to their place in the stratigraphic column and the basin The last decade has seen the rise of facies analysis based on a closer look at the stratigraphic record and the recognition of characteristic bedding sequences that are the signatures of some geologic process such as a prograding shallow water delta or the migration of a point bar on an alluvial floodplain The environment of sand deposition is more closely determined by its place in such depositional systems than by criteria based on textural characteristics the fingerprint approach Our revision reflects this change in thinking As in the geological sciences as a whole the concept of plate tectonics has required a rethinking of our older ideas about the origin and accumulation of sediments especially the nature of the sedimentary basins

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

Sedimentary Provenance and Petrogenesis José Arribas, Salvatore Critelli, Mark J. Johnsson, 2007-01-01

Sedimentary Rocks in the Field Maurice E. Tucker, 1996-04-19

Sedimentary rocks are widely distributed at the Earth's surface their accurate description is essential for the interpretation of depositional environments palaeogeography This book describes how these rocks may be observed recorded mapped

Manganese Mineralization Keith Nicholson, 1997 Manganese mineralization is diverse in occurrence origin mineralogy and geochemistry This volume includes a review of the range of terrestrial Mn deposits and their relative abundance through

geological time Experimental and modelling approaches to Mn geochemistry and mineralogy can further aid our understanding of the formational and depositional processes involved and thereby our interpretation of deposit metallogenesis Journal of Sedimentary Petrology, 1940 Analytical Sedimentology Douglas W. Lewis, David McConchie, 2012-12-06 The first edition of Practical Sedimentology contained dis ACKNOWLEDGMENTS cussions 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 Univer plied with inexpensive and commonly available equipment sity of New England Lismore have helped with practical When considering a revised edition we felt that it was inap advice 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 *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 *A Color Guide to the Petrography of Carbonate Rocks* Peter A. Scholle, Dana S. Ulmer-Scholle, 2003

Sedimentary Geology Donald R. Prothero, Fred Schwab, 2004 This is an accessible introductory text which encompasses both sedimentary rocks and stratigraphy The book utilizes current research in tectonics and sedimentation and focuses on crucial geological principles It covers a wide range of topics including trace fossils mudrocks and diagenetic structures

Practical Sedimentology D.W. Lewis, D.M. McConchie, 2012-12-06 Sedimentology has neither been adequately popularized nor This book begins with a consideration of the complex end commonly taught as an interdisciplinary subject and many product of processes and materials the sedimentary environ workers in the areas of modem environment studies have very ment It then proceeds to discuss the processes and materials limited knowledge of sedimentology Practical Sedimentol themselves The emphasis is on geological interpretations of ogy henceforth PS is designed to provide an introduction and ancient deposits but most discussions are also relevant to review of principles and interpretations related to sedimentary modem sediments and can be used to predict environmental processes environments and deposits Its companion

volume changes A basic knowledge of geological jargon is anticipated Analytical Sedimentology henceforth AS provides cookpated for users of this book we try to define most of the more book recipes for common analytical procedures dealing with esoteric terms in context but if there are additional incom sediments and an introduction to the principles and reference prehensible terms refer to Bates and Jackson s Glossary of sources for procedures that generally would be performed by Geology AGI 1987 specialist consultants or commercial laboratories Specialist sedimentologists will find in them useful reviews whereas sci ACKNOWLEDGMENTS entists from other disciplines will find in them concepts and procedures that may contribute to an expanded knowledge of Many chapter drafts ofPS were critically reviewed by Dr M

Publications of the Geological Survey Geological Survey (U.S.),1948 *New Publications of the U.S. Geological Survey* ,1995 Heavy Minerals in Use Maria A. Mange,David T. Wright,2007-09-10 The book is structured thematically encompassing principles processes and products practice and applications Discussion of processes that control heavy mineral assemblages throughout the rock cycle are presented by leading experts whose key note works are followed by specialist case studies Each work also provides details on the geology of the study area techniques and data treatment The high number of contributions represent the collective experience and wisdom of generations of geologists and provide an invaluable source of references to works carried out in many parts of the world Presents a unique and authoritative resource of immediate relevance and practical use to the researcher and applied geologist Contains case studies demonstrating the broad range of applications of heavy minerals in a variety of modern and ancient geological settings and in resource exploration Includes examples of geological problems from employing heavy mineral analysis and establishing criteria that can be applied before deciding to undertake a study

Fuel your quest for knowledge with is thought-provoking masterpiece, Dive into the World of **Sedimentary Petrology** . This educational ebook, conveniently sized in PDF (*), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons. .

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