Sedimentary Petrology An Introduction To The Origin Of Sedimentary Rocks

The Principles of Petrology
Introduction to Sedimentology, 2e (PB)
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Petrography an Introduction to the Study of Rocks in Thin Sections

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Introduction to Sedimentology
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The Principles of Petrology
Sedimentary Petrology: The origin of sediments and sedimentary rocks. 2d rev. ed
The Principles of Petrology

KNOX CORDOVA

The Principles of Petrology
Springer Science & Business Media
Comprehensive textbook on all aspects of sedimentology and stratigraphic principles Sedimentology and Stratigraphy introduces the reader to the subjects and provides tools for the interpretation of sediments and sedimentary rocks, covering the processes of formation, transport, and deposition of sediment and applying them to develop conceptual models for the full range of sedimentary environments, from deserts to deep seas and reefs to rivers. Different approaches to using stratigraphic principles to

date and correlate strata are also considered to provide a comprehensive overview of all aspects of sedimentology and stratigraphy. The 3rd edition has been thoroughly revised and updated. The chapter structure has been revised, such that there are distinct sections on geomorphology and on stratigraphy for each depositional setting. The new edition also features a new set of illustrations in full colour. Key concepts introduced in Sedimentology and Stratigraphy include: The importance of changes in plant and animal life through time and the effects on characteristics of both marine and continental sedimentary environments The distinction between modern environments and what is preserved in the sedimentary record, with coverage of glacial erosional and depositional landforms Modern desert environments and aeolian deposits in the stratigraphic record Fluvial processes including patterns of tributary and distributary channels at different scales and in different settings Written by a highly qualified author with abundant experience in the field, Sedimentology and Stratigraphy serves as a highly accessible resource for students of geology and related subjects who seek to understand the formation, characteristics, and importance of sedimentary rocks.

Introduction to Sedimentology, 2e (PB)

John Wiley & Sons

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.

Sedimentary Petrology
Prentice Hall
This book is intended to give an introduction to sedimentology and petroleum geology at undergraduate level. These two subjects have been treated together because of the close links between sedimen tology as an academic dicipline, petroleum geology, which is the application of sedimentology, and a number of other aspects of petroleum exploration and production. The oil industry ist by far the most important employer of sedimentologists and the lively interaction that takes place between the academic community and the research laboratories and exploration departments of the oil industry has been very fruitful for both parties. Our knowledge of sedimentary basins now depends to a very large extent on data obtained by commercial petroleum exploration. Studies of actual rocks in outcrops, particularly if they are extensive, will always be important for sedimentologists, but

subsurface data like seismic sections and well logs provide us with in much information on the three-dimensional distribution of facies that we could not otherwise obtain. Subsurface techniques are certainly important for pe troleum geologists, but also other sedimentologists should be able to use subsurface data. I have therefore included elementary intro ductions to the use of well logs and seismic methods in this book, with fundamentals of external controls on sedimentation such as basin subsidence and sea level changes. I have tried to present the state of knowledge at this level without referring to the original research papers except when specific data are quoted or used in illustrations.

Petrography Cambridge University Press

Key concepts in mineralogy and petrology are explained alongside beautiful full-color illustrations, in this concisely written textbook.

Introduction to Petrology Editions TECHNIP

The igneous rocks; The secondary rocks; The metamorphic rocks.

An Introduction to Sediment Analysis Cambridge University Press

The earlier editions of this book have been used by successivegenerations of students for more than 20 years, and it is thestandard text on the subject in most British universities and manyothers throughout the world. The study of sediments and sedimentary rocks

continues to be acore topic in the Earth Sciences and this book aims to provide aconcise account of their composition, mineralogy, textures,structures, diagenesis and depositional environments. This latest edition is noteworthy for the inclusion of 16 plateswith 54 colour photomicrographs of sedimentary rocks inthin-section. These bring sediments to life and show their beautyand colorful appearance down the microscope; they will aid thestudent enormously in laboratory petrographic work. The text hasbeen revised where necessary and the reference and further readinglists brought up-to-date. New tables have been included to helpundergraduates with rock and thin-section description andinterpretation. New 16-page colour section will mean students do not need tobuy Longman Atlas All illustrations redrawn to higher standard Complete revision of text - new material on sedimentarygeochemistry , etc

Sedimentary Petrology

Wiley-Blackwell 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 antici Analytical Sedimentology (henceforth AS), provides "cook pated 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.

An Introduction to

sedimentary petrography Springer Science & Business Media Introduction to Mineralogy and Petrology, second edition, presents the essentials of both disciplines through an approach accessible to industry professionals, academic researchers, and students alike. This new edition emphasizes the relationship between rocks and minerals, right from the structures created during rock formation through the economics of mineral deposits. While petrology is classified on the lines of geological evolution and rock formation, mineralogy speaks to the physical and chemical properties, uses, and global occurrences for each mineral, emphasizing the need for the growth of human development. The primary goal is for the reader to identify minerals in all respects, including host-rocks, and mineral deposits, with additional knowledge of mineral-exploration, resource, extraction, process, and ultimate use. To help provide a comprehensive analysis across ethical and socio-economic dimensions, a separate chapter describes the hazards associated with minerals, rocks, and mineral industries, and the consequences to humanity along with remedies and case studies. New to the second edition: includes coverage of minerals and petrology in extra-terrestrial environments as well as case studies on the hazards of the mining industry. Addresses the full scope of core

concepts of mineralogy and petrology, including crystal structure, formation and grouping of minerals and soils, definition, origin, structure and classification of igneous, sedimentary and metamorphic rocks Features more than 250 figures, illustrations and color photographs to vividly explore the fundamental principles of mineralogy and petrology Offers a holistic approach to both subjects, beginning with the formation of geologic structures that is followed by the hosting of mineral deposits and the exploration and extraction of lucrative, usable products that improve the health of global economies Includes new content on minerals and petrology in extraterrestrial environments and case studies on hazards in the mining industry

Sedimentary Petrology
Springer
Advanced textbook outlining the physical, chemical, and biological properties of sedimentary rocks through petrographic microscopy, geochemical techniques, and field study.

Sedimentary Petrography
Prentice Hall
This book was conceived as the Third Edition of Introduction to Sedimentology, published first in 1976, then again in 1982. This book is divided into three parts on "real rock" sedimentology: Rock to Sediment, Sediment Sedimented, and Sediment to Rock, reflecting the closed nature of the sedimentary cycle. Each part is

introduced with an appropriate quotation from Sir Charles Lyell's seminal Elements of Geology, which first appeared in 1838.

An Introduction to Sedimentary Petrography

Larsen and Keller Education

Excerpt from An Introduction to Sedimentary Petrography: With Special Reference to Loose Detrital Deposits and Their Correlation by Petrographic Methods This book has been designed to meet the requirements of all those engaged in the study of microscopical examination of sediments - more especially incoherent detrital deposits - whether for academic or economic purpose. The plan adopted is much the same as that forming the basis of a course of lectures in Sedimentary Petrography (as applied to Oil Technology) given by the author at the Royal School of Mines, and as many of the methods involved are new, not in principle but in application, it is thought that a useful purpose may be served by presenting them in a concise form to a larger audience. The application of Sedimentary Petrography to certain branches of pure and economic geology, the gradual evolution of the higher technique involved, and the parts played by British geologists in laying the foundations of the subject, are sufficiently discussed in the Introduction which follows, rendering further remarks in connexion therewith unnecessary. At the outset, however, it is

desirable to emphasise the fact that, as with other branches of natural science and their technical applications, no degree of finality can be said to have been achieved, and an enormous amount of research, both in the field and in the laboratory, awaits prosecution. Petrographic methods as means of correlating loose detrital sediments (with which this volume is largely concerned), constitute a factor of the greatest possible import in practical geology.

Introduction to Petrology
Macmillan

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 will be in 4 colour and will contain 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 will be fully 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.

Petrology of Sedimentary Rocks Wiley-Blackwell

This textbook outlines the physical, chemical, and biologic properties of the major sedimentary rocks, as revealed by petrographic microscopy, geochemical techniques, and field study. It covers the mineralogy, chemistry, textures, and sedimentary structures that characterise sedimentary rocks, and relates these features to the depositional origin of the rocks and their subsequent alteration by diagenetic processes during burial. In addition to detailed sections on siliciclastic and carbonate rocks, it also discusses evaporites, cherts, iron-

rich sedimentary rocks, phosphorites, and carbonaceous sedimentary rocks such as oil shales. This second edition maintains the comprehensive treatment of sedimentary petrography and petrology provided in the first edition, and has been updated with new concepts and cutting-edge techniques like cathodoluminescence imaging of sedimentary rocks and backscattered electron microscopy. It is ideal for advanced undergraduate and graduate courses in sedimentary petrology, and is a key reference for researchers and professional petroleum geoscientists.

Petrology of Sedimentary Rocks

Macmillan Higher Education

This book covers all of the rudimentary aspects of sedimentology, including different types of sedimentary rocks, sedimentary structures, and environments of deposition of sediments. The application of sedimentology in the search for hydrocarbons and other valuable economic resources is explained. Written for students, amateur enthusiasts, and professional geologists, the book provides a succinct and accessible introduction to the science of sedimentology. It is generously illustrated with many explanatory line diagrams and color photographs. Technical terms are kept to a minimum throughout the book, but a glossary of terms is provided--

Introduction to

Sedimentology Routledge
Written for a first course in sedimentary geology or sedimentary rocks and stratigraphy (with only an introductory geology/physical geology course as a prerequisite), Prothero and Schwab shows students how sedimentary strata serves geologists as a continuous record of Earth's history. The authors' conversational style, and focus on the important concepts make the book highly accessible to an undergraduate audience.
Sedimentology and Stratigraphy John Wiley & Sons
In this work, the reader will find the basic concepts and vocabulary of sedimentary geology, along with a presentation of the new ideas that are in current use in petroleum exploration. This abundantly illustrated book will serve as an excellent educational tool and remain a valuable resource and handy reference work in any petroleum geology library.Contents: 1. Basics of dynamic geology. 2. Continental and oceanic basins. 3. Sedimentary driving mechanisms and environments. 4. Time evolution: Sedimentary sequences, stratigraphy. 5. From sediments to sedimentary basin rocks and mountain chains. 6. Petroleum systems.
IndexState of Strain. 2. State of Stress. 3. Thermodynamics of Continuous Media. II. Mechanism of Material Strain. 4. Linear Elasticity. General Theory. 5. Plane Theory of Elasticity. 6. Behaviour of a Material Containing Cavities. 7.

Thermodynamics of Saturated Porous Media. 8. Infinitesimal Thermoporoelasticity. 9. The Triaxial Test and the Measurement of Thermoporoelastic Properties. 10. Thermoporoelastoplasticity. General Theory and Application. III. Mechanisms of Material Cohesion Loss. 11. Fissuring. 12. Introduction to Damage Theory. 13. Appearance of Shearing Bands in Geomaterials.

The Petrology of the Sedimentary Rocks

Cambridge University Press

With more than 192 full-color illustrations, this atlas permits virtually first-hand observations through a petrographic microscope of the most important and representative classes of sedimentary rock. Nine major sedimentary rock groups, such as sandstones, rudaceous rock, argillaceous rock, volcaniclastic rock, dolomites, siliceous rock, phosphorites, ironstones, and evaporites. An indispensable reference for professional geologists and undergraduate and graduate students enrolled in sedimentary petrology or petrography courses.

Sedimentology and Petroleum Geology

Elsevier

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 diagentetic structures.

Introduction to Mineralogy and Petrology

The study of rocks along with the processes through which they are formed is conducted under the branch of geology known as petrology. There are three major subdivisions within petrology, namely, sedimentary, metamorphic and igneous petrology. Sedimentary petrology deals with the texture and composition of sedimentary rocks. Igneous petrology is the study of the composition and texture of igneous rocks such as volcanic and plutonic rocks. Metamorphic petrology deals with the rocks which were initially sedimentary or igneous but due to extreme pressure or temperature, have undergone chemical or mineralogical changes. Some of the fields used within petrology are mineralogy, petrography and chemical analysis. This book provides comprehensive insights into the field of petrology. It consists of contributions made by international experts. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge.

Sedimentary petrology

This undergraduate textbook on the key subject of geology closely follows the core curriculum adopted by most universities throughout the world and is a must for every geology student. It covers all aspects of petrology, including not only the principles of petrology but

also applications to the origin, composition, and field relationships of rocks. Although petrology is commonly taught in the junior year, this book is a useful resource for graduate students as well.

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