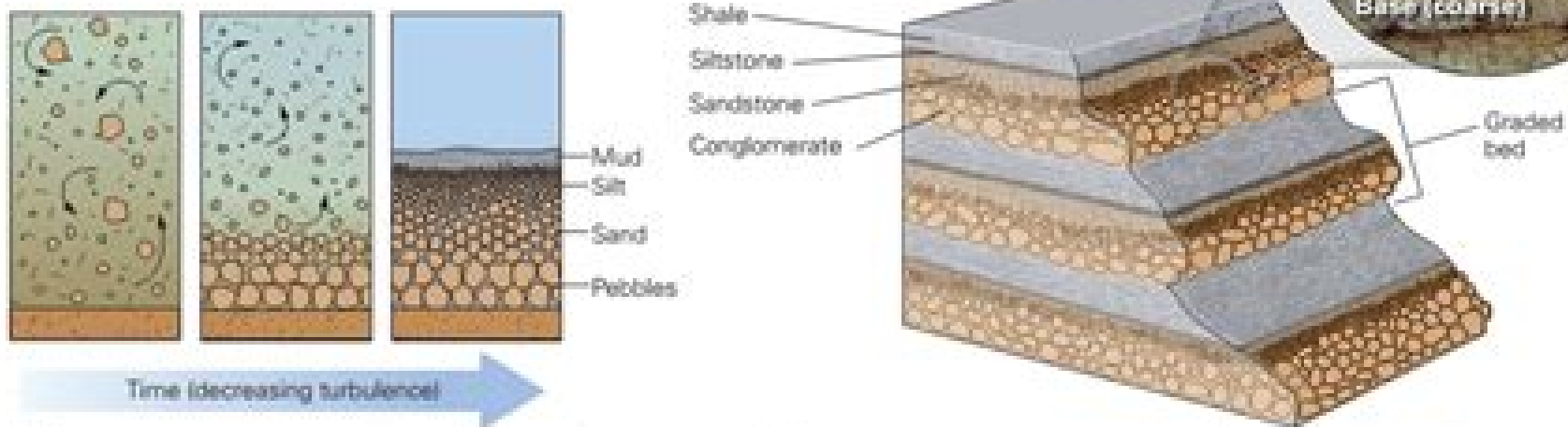


(a) An earthquake or storm triggers an underwater avalanche (turbidity current).



(b) As the turbidity current slows, larger grains settle first, followed by progressively finer grains.

(c) As the process repeats, a succession of graded beds accumulates.

Sedimentary Structures

L.P. Dake



Sedimentary Structures:

Sedimentary structures, their character and physical basis Volume 1 ,1982-01-01 Sedimentary structures their character and physical basis Volume 1 Sedimentary structures of ephemeral streams ,1973-01-01 Sedimentary structures of ephemeral streams **Sedimentary Structures** John Collinson,Nigel Mountney,2019-02-14 Completely revised new edition in colour for the first time of an established textbook in sedimentology Sedimentary structures, their character and physical basis Volume 2 ,2011-09-22 Sedimentary structures their character and physical basis Volume 2 **Atlas and Glossary of Primary Sedimentary Structures** F. J. Pettijohn,P. E. Potter,2012-12-06 Inadequate observation of sedimentary TRUSHKovA and KUKHARENKO S Atlas of structures has been responsible for incorrect Placer Minerals The most comprehensive interpretation of the order of superposition atlas is the Atlas of Textures and Struc in deformed beds and this has led in turn tures of Sedimentary Rocks edited by A to gross errors in stratigraphy and structure V Khabakov 1962 Failure to recognize and utilize those Our Atlas is an outgrowth of our work on structures which indicate direction of cur Paleocurrents and Basin Analysis a book rent flow has also led to incorrect or at in which directional sedimentary structures least incomplete understanding of basin are described and interpreted with special development reference to the evolution of sedimentary We believe therefore that there is need for basins That work however contains mini a work which constitutes a field guide to the mal photographic material just enough study of these structures a book in to give the reader some concept of the sedi which these structures so difficult to mentary structures described *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 **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 *Sedimentary Petrology* Maurice E. Tucker,Stuart J. Jones,2023-04-10 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

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Aeolian Sand and Sand Dunes, 2008-11-14 It is more than half a century since the publication of R A Bagnold's classic book The physics of blown sand and desert dunes and it is a tribute to the quality of Bagnold's work that many of the fundamental principles which he developed remain valid today His book continues to be essential reading for any serious student of aeolian processes However the past two decades have seen an explosion in the scale of research dealing with aeolian transport processes sediments and landforms Some of this work has been summarized in review papers and edited conference proceedings but this book provides the first attempt to review the whole field of aeolian sand research Inevitably it has not been possible to cover all aspects in equal depth and the balance of included material naturally reflects the authors own interests to a significant degree However our aim has been to provide as broad a perspective as possible and to provide an entry point to an extensive multidisciplinary scientific literature some of which has not been given the attention it deserves in earlier textbooks and review papers Many examples are drawn from existing published work but the book also makes extensive use of our own research in the Middle East Australia Europe and North America The book has been written principally for use by advanced undergraduates postgraduates and more senior research workers in geomorphology and sedimentology

Petroleum Sedimentology Winfried Zimmerle, H. Zimmerle, 1995-04-30 Knowledge of the principles and methods of petroleum sedimentology is essential for oil and gas exploration and exploitation This book is designed as an introductory text for students in petroleum geology and applied sedimentology as well as a useful companion for advanced technicians explorationists geophysicists and petroleum engineers Source rock lithology and type of trap define the quality of a hydrocarbon accumulation This interrelationship is exemplified by seven case histories worldwide NW Europe Saudi Arabia U S A Mexico CIS China Moreover successful exploitation and enhanced oil recovery often depend on an adequate knowledge of the sedimentology of a reservoir Photographs illustrate macroscopic and microscopic aspects of source rocks as well as reservoir sandstones and limestones that are most important for hydrocarbon exploration A comprehensive list of references encourages further study

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Sedimentary Rocks in the Field Maurice E. Tucker, 2003-07-25

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Sedimentology and Stratigraphy Gary Nichols, 2009-06-10 Sedimentary rocks contain the most important archive of environmental change through earth history. They record changing climates, the movement of plates and the rise and fall of sea level on timescales of a few thousand to billions of years. This fully revised and updated edition introduces the reader to sedimentology and stratigraphic principles and provides tools for the interpretation of sediments and sedimentary rocks. The processes of formation, transport and deposition of sediment are considered and then applied 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 in order to provide a comprehensive introduction to all aspects of sedimentology and stratigraphy. The text and figures are designed to be accessible to anyone completely new to the subject and all of the illustrative material is provided in an accompanying CD-ROM. High resolution versions of these images can also be downloaded from the companion website for this book at www.wiley.com/go/nicholssedimentology.

Microbial Sediments Robert E. Riding, 2000-01-28 Microbes are of key importance in the production, deposition and diagenesis of sediments. This volume provides a comprehensive overview of microbial sediments. It contains authoritative and stimulating contributions by distinguished authors that cover the field and set the scene for future advances. It deals with mats and biofilms, biosedimentary precipitates, fabrics and diagenesis in a wide range of sedimentary environments and it examines the development of microbial sediments through time. It is designed for postgraduate researchers and professional scientists who require up to date information on the influence of microorganisms on sedimentation.

Wetlands Through Time Stephen F. Greb, William A. DiMichele, 2006-01-01

The Practice of Reservoir Engineering (Revised Edition) L.P. Dake, 2001-05-10 This revised edition of the bestselling Practice of Reservoir Engineering has been written for those in the oil industry requiring a working knowledge of how the complex subject of hydrocarbon reservoir engineering can be applied in the field in a practical manner. Containing additions and corrections to the first edition, the book is a simple statement of how to do the job and is particularly suitable for reservoir production engineers as well as those associated with hydrocarbon recovery. This practical book approaches the basic limitations of reservoir engineering with the basic tenet of science: Occam's Razor, which applies to reservoir engineering to a greater extent than for most physical sciences: if there are two ways to account for a physical phenomenon, it is the simpler that is the more useful. Therefore, simplicity is the theme of this volume. Reservoir and production engineers, geoscientists, petrophysicists and those involved in the management of oil and gas fields will want this edition.

Digital Mapping Techniques '03, Workshop Proceedings David R. Soller, 2003

Applied Sedimentology Richard C. Selley, 2000-05-24 There are three types of rock: igneous, metamorphic and

sedimentary Sedimentary rocks form from the weathering erosion transportation and deposition of older rocks Applied Sedimentology describes the formation transportation and deposition of sediment and the post depositional processes that change soft sediment into sedimentary rock Sedimentary rocks include sandstones limestones and mudstones All the world's coal most of its water and fossil fuels and many mineral deposits occur in sedimentary rocks Applied Sedimentology shows how the study of sediments aids the exploration for and exploitation of natural resources including water ores and hydrocarbons Completely revised edition Like its precursor it describes sediments from sand grains to sedimentary basins Features up to date account and critique of sequence and cyclostratigraphy Extensively illustrated with photos and remotely sensed sea bed images describing sedimentary processes products and depositional systems Color plates illustrate sediment textures lithologies pore types diagenetic textures and carbonate and clastic sequence stratigraphic models Emphasises the applications of sedimentology to the exploration for and exploitation of natural resources including water ores and hydrocarbons Extensive references and up to date bibliography for further study [Quantitative Information Fusion for Hydrological Sciences](#) Xing Cai,T.-C. Jim Yeh,2008-01-03 In this rapidly evolving world of knowledge and technology do you ever wonder how hydrology is catching up Here two highly qualified scientists edit a volume that takes the angle of computational hydrology and envision one of the science's future directions namely the quantitative integration of high quality hydrologic field data with geologic hydrologic chemical atmospheric and biological information to characterize and predict natural systems in hydrological sciences *Sedimentary Petrology* Mr. Rohit Manglik,2024-07-19 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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