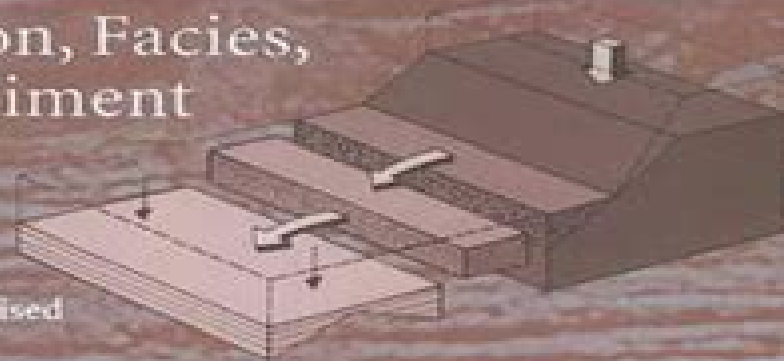


Gerhard Einsele

SEDIMENTARY BASINS

Evolution, Facies,
and Sediment
Budget

Second,
Completely Revised
and Enlarged
Edition



Springer

Sedimentary Basins Evolution Facies And Sediment Budget

**Jan Harff, Wolfram Lemke, Karl
Stattegger**



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Sedimentary Basins Gerhard Einsele, 2013-06-29 The modern geological sciences are characterized by extraordinarily rapid progress as well as by the development and application of numerous new and refined methods most of them handling an enormous amount of data available from all the continents and oceans Given this state of affairs it seems inevitable that many students and professionals tend to become experts in relatively narrow fields and thereby are in danger of losing a broad view of current knowledge The abundance of new books and symposium volumes testifies to this trend toward specialization However many geologic processes are complex and result from the interaction of many seemingly unrelated individual factors This signifies that we still need generalists who have the broad overview and are able to evaluate the great variety of factors and processes controlling a geologic system such as a sedimentary basin In addition this also means that cooperation with other disciplines in the natural sciences and engineering is increasingly important Modern text books providing this broad overview of the earth sciences are rare

Sedimentology and Sedimentary Basins Mike R. Leeder, 2011-02-21 The sedimentary record on Earth stretches back more than 4.3 billion years and is present in more abbreviated forms on companion planets of the Solar System like Mars and Venus and doubtless elsewhere Reading such planetary archives correctly requires intimate knowledge of modern sedimentary processes acting within the framework provided by tectonics climate and sea or lake level variations The subject of sedimentology thus encompasses the origins transport and deposition of mineral sediment on planetary surfaces The author addresses the principles of the subject from the viewpoint of modern processes emphasising a general science narrative approach in the main text with quantitative background derived in enabling cookie appendices The book ends with an innovative chapter dealing with how sedimentology is currently informing a variety of cognate disciplines from the timing and extent tectonic uplift to variations in palaeoclimate Each chapter concludes with a detailed guide to key further reading leading to a large bibliography of over 2500 entries The book is designed to reach an audience of senior undergraduate and graduate students and interested academic and industry professionals

Lithosphere Dynamics and Sedimentary

Basins of the Arabian Plate and Surrounding Areas François Roure, Ammar A. Amin, Sami Khomsi, Mansour A. M. Al Garni, 2016-11-21 This book focuses on the links between deep earth mantle and shallow processes in areas of active tectonics in the Arabian Plate and Surrounding Areas It also provides key information for energy resources in these areas The book is a compilation of selected papers from the Task Force of the International Lithosphere Program ILP It comprises a set of research studies from the Middle East North Africa and the Mediterranean domain focusing on 1 the architecture geodynamic evolution and modelling of the Red Sea rift system and its surroundings and tectonics and sedimentation in the Gulf of Corinth 2 the crustal architecture and georesources of the North Algerian Offshore 3 Reservoirs aquifers and fluid transfers in Saudi Basins Petroleum systems and salt tectonics in Yemen and 4 Cretaceous Eocene foreland inversions in Saudi Arabia

Petroleum and Basin Evolution Dietrich H. Welte, Brian Horsfield, Donald R. Baker, 2012-12-06 This book has been prepared by the collaborative effort of two somewhat separate technical groups the researchers at the Institute for Petroleum and Organic Geochemistry Forschungszentrum Jülich KFA and the technical staff of Integrated Exploration Systems IES One of us Donald R Baker from Rice University Houston has spent so much time at KFA as a guest scientist and researcher that it is most appropriate for him to contribute to the book During its more than 20 year history the KFA group has made numerous and significant contributions to the understanding of petroleum evolution The KFA researchers have emphasized both the field and laboratory approaches to such important problems as source rock recognition and evaluation oil and gas generation maturation of organic matter expulsion and migration of hydrocarbons and crude oil composition and alteration IES Jülich has been a leader in the development and application of numerical simulation basin modeling procedures The cooperation between the two groups has resulted in a very fruitful synergy effect both in the development of modeling software and in its application The purpose of the present volume developed out of the 1994 publication by the American Association of Petroleum Geologists of a collection of individually authored papers entitled The Petroleum System From Source to Trap edited by L B Magoon and W G Dow

Sedimentary Petrology Maurice E. Tucker, 2013-05-22 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 colourful 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 Sedimentary Basins of the United States and Canada
 Andrew Miall, 2019-04-20 The Sedimentary Basins of the United States and Canada Second Edition focuses on the large regional sedimentary accumulations in Canada and the United States Each chapter provides a succinct summary of the tectonic setting and structural and paleogeographic evolution of the basin it covers with details on structure and stratigraphy The book features four new chapters that cover the sedimentary basins of Alaska and the Canadian Arctic In addition to sedimentary geologists this updated reference is relevant for basin analysis regional geology stratigraphy and for those working in the hydrocarbon exploration industry Features updates to existing chapters along with new chapters on sedimentary basins in Alaska and Arctic Canada Includes nearly 300 detailed full color paleogeographic maps Written for general geological audiences and individuals working in the resources sector particularly those in the fossil fuel industry

Sedimentary Geology Bernard Biju-Duval, 2002 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 Index State 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 **Computerized Modeling of**

Sedimentary Systems Jan Harff, Wolfram Lemke, Karl Stattegger, 2013-03-14 Computerized modeling is a powerful tool to describe the complex interrelations between measured data and the dynamics of sedimentary systems Complex interaction of environmental factors with natural variations and increasing anthropogenic intervention is reflected in the sedimentary record at varying scales The understanding of these processes gives way to the reconstruction of the past and is a key to the prediction of future trends Especially in cases where observations are limited and or expensive computer simulations may substitute for the lack of data State of the art research work requires a thorough knowledge of processes at the interfaces between atmosphere hydrosphere biosphere and lithosphere and is therefore an interdisciplinary approach

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