



Particulate Gravity Currents

Kevin T. Pickering, Richard N. Hiscott

Particulate Gravity Currents:

Particulate Gravity Currents W. D. McCaffrey,B. C. Kneller,J. Peakall,2009-03-05 This volume arises from the conference Sediment Transport and Deposition by Particulate Gravity Currents held in the UK in 1998 The field of particulate gravity currents ranges from turbidity currents in the oceans lakes and reservoirs to pyroclastic density currents and avalanches debris flows and lahars grainflows powder snow avalanches effluent dispersal and ancient gravity current deposits Although the sub division of particulate gravity currents into discrete sub categories such as grain flows turbidity currents or debris flows provides a convenient descriptive shorthand it undermines the sense of process continuum needed to describe many natural flows The structure of this volume reflects an integrative aim with papers grouped by research approach The first section of the book contains six papers on theoretical and numerical modelling of a range of flow types The following four papers are focused upon combined theoretical and experimental modelling approaches The next section contains four papers describing experimental modelling and the final section includes five papers detailing field based studies The volume stands as a testament to the broad range of research carried out on particulate gravity currents and hints at the enhanced rate of progress that is likely to be achieved through further integrated studies If you are a member of the International Association of Sedimentologists for purchasing details please see <http://www.iasnet.org/publications/details.asp?code=SP31>

Particulate Gravity Currents Benjamin Kneller,Eckart Meiburg,Bernhard Vowinckel,Zhiguo He,2025-11-04 Exploring the properties behavior and dynamics of particulate gravity currents Particulate gravity currents involve the movement of mixtures of particles and fluid under the influence of gravity Examples in the natural environment include snow avalanches pyroclastic flows and seafloor turbidity currents Understanding how particles move mix stratify and settle has applications such as hazard mitigation and pollution management Particulate Gravity Currents Theory Experiments and Environmental Applications presents experimental numerical and field studies of particulate gravity currents offering new insights into their properties behavior and dynamics Volume highlights include Explorations of cohesive and non cohesive sediment and transport Applications of theoretical understanding to real world subaerial and subaqueous processes Studies using the latest techniques including 3D numerical simulation Broader relevance beyond the natural environment to other types of particulate and non particulate gravity currents The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

Gravity Currents And Intrusions: Analysis And Prediction Marius Ungarish,2020-12-08 The flow of gravity currents and intrusions is a subject of active research and engineering application Currently there are no formal teaching courses for this topic Materials and information available in the market are scattered and dated Researchers and engineers face difficulties in acquiring the state of the art knowledge The book bridges this gap between the need and supply of the relevant insight and know how Written by a renowned author who is a recognized authority in the field this

unique compendium assembles the relevant knowledge into a systematic and unified framework. The presentation is gradual from the elementary to the frontier and accessible to readers with only a basic background in fluid mechanics and applied mathematics. This will facilitate the systematic acquirement and application of available knowledge to both practical problems and further research. This must have volume is a useful monograph that can also serve as a textbook in advanced courses for researchers students engineers and applied mathematicians in the fields of civil engineering hydraulic engineering mechanical engineering ocean engineering and environmental engineering.

Spatial and Temporal Evolution of Deep-marine Particulate Gravity Currents Simon Paul Barker,2005

Unit Operations of Particulate Solids Enrique Ortega-Rivas,2016-04-19

Suitable for practicing engineers and engineers in training this book covers the most important operations involving particulate solids. Through clear explanations of theoretical principles and practical laboratory exercises the text provides an understanding of the behavior of powders and pulverized systems. It also helps readers develop skills for operating optimizing and innovating particle processing technologies and machinery in order to carry out industrial operations. The author explores common bulk solids processing operations including milling agglomeration fluidization mixing and solid fluid separation.

Deep Marine Systems Kevin T. Pickering,Richard N. Hiscott,2015-10-23

Deep water below wave base processes although generally hidden from view shape the sedimentary record of more than 65% of the Earth's surface including large parts of ancient mountain belts. This book aims to inform advanced level undergraduate and postgraduate students and professional Earth scientists with interests in physical oceanography and hydrocarbon exploration and production about many of the important physical aspects of deep water mainly deep marine systems. The authors consider transport and deposition in the deep sea trace fossil assemblages and facies stacking patterns as an archive of the underlying controls on deposit architecture e.g. seismicity climate change autocyclicity. Topics include modern and ancient deep water sedimentary environments tectonic settings and how basinal and extra basinal processes generate the typical characteristics of basin slopes submarine canyons contourite mounds and drifts submarine fans basin floors and abyssal plains.

Sedimentation and Sediment Transport A. Gyr,Wolfgang Kinzelbach,2003-05-31

It is evident that for a number of ecological and technical problems in rivers and lakes a better knowledge of sediment transport and sedimentation is needed together with the ability to predict and simulate sediment behaviour. On the other hand a stagnation of research in these topics could be observed in the last decades. At the Symposium an attempt was made to present new results in mathematics and natural sciences relevant for the sediment problem. New strategies were discussed to tackle the complexity of the problem. Basic theoretical research and laboratory experiments alone are incomplete without a feedback from field observations and measurements. For that reason well known researchers from both basic and engineering sciences were invited. Turbulence non local phenomena stability interaction feedback systems self organization two phase flow and chaotic processes numerical simulations as well as measurement techniques and field results were the keywords of

the Symposium This proceedings are a good source for those interested in the state of the art **[Handbook of Environmental Fluid Dynamics, Two-Volume Set](#)** Harindra Joseph Fernando,2012-12-11 With major implications for applied physics engineering and the natural and social sciences the rapidly growing area of environmental fluid dynamics focuses on the interactions of human activities environment and fluid motion A landmark for the field this two volume handbook presents the basic principles fundamental flow processes modeling techniques and measurement methods used in the field along with critical discussions of environmental sustainability related to engineering aspects The first volume provides a comprehensive overview of the fundamentals and the second volume explores the interactions between engineered structures and natural flows **[Handbook of Environmental Fluid Dynamics, Volume One](#)** Harindra Joseph Fernando,2012-12-12 With major implications for applied physics engineering and the natural and social sciences the rapidly growing area of environmental fluid dynamics focuses on the interactions of human activities environment and fluid motion A landmark for the field the two volume Handbook of Environmental Fluid Dynamics presents the basic principles funda

Sedimentology and Stratigraphy Gary Nichols,2013-04-30 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

Continental Margin Sedimentation Charles A. Nittrouer,James A. Austin,Michael E. Field,Joseph H. Kravitz,James P. M. Syvitski,Patricia L. Wiberg,2009-03-12 This volume on continental margin sedimentation brings together an expert editorial and contributor team to create a state of the art resource Taking a global perspective the book spans a range of timescales and content ranging from how oceans transport particles to how thick rock sequences are formed on continental margins Summarizes and integrates our understanding of sedimentary processes and strata associated with fluvial dispersal systems on continental shelves and slopes Explores timescales ranging from particle transport at one extreme to deep burial at the other Insights are presented for margins in general and with focus on a tectonically active margin northern California and a passive margin New Jersey enabling detailed examination of the intricate relationships between a wide suite of sedimentary processes and their preserved stratigraphy Includes observational studies which document the processes and strata found on particular margins in addition to numerical models and laboratory experimentation which provide a quantitative basis for extrapolation in time and space of insights about continental margin sedimentation Provides a research

resource for scientists studying modern and ancient margins and an educational text for advanced students in sedimentology and stratigraphy *Sedimentology* James L. Best,C. R. Fielding,Ian Jarvis,Peter Mozley,2009-05-11 Sedimentology has seen many significant advances and changes over the past 40 years ranging from facies modelling to sequence stratigraphy chemostratigraphy to basin analysis and the integration of studies of physical chemical and increasingly biological processes in the interpretation and prediction of sedimentary environments and products The subject is becoming ever more interdisciplinary and applied and now has far more links to other physical sciences Research and debate are continuing afresh as we move into this new interdisciplinary phase and promise many developments and increased uses of our subject Now seemed a good time to publish a series of review papers concerning some key current areas of research We hope that these papers will provide comprehensive starting points for those wishing to become acquainted with an area act as stimuli for debate and provide awareness and ideas for future research avenues No issue of this sort can of course ever be truly comprehensive in its coverage these reviews concern only selected snippets from the wide scope of sedimentology and each has of necessity been selective in its own area

Glacier-influenced Sedimentation on High-latitude Continental Margins

J. A. Dowdeswell,C. Ó Cofaigh,2002 This book examines the process and patterns of glacier influenced sedimentation on high latitude continental margins and the geophysical and geological signatures of the resulting sediments and landforms It contains a range of papers concerning modern and glacially influenced sedimentation in high latitude areas from both hemispheres many of which discuss the relationship between glacier dynamics and the sediments and landforms preserved in the glacimarine environment

The Emergence of Spacetime in String Theory

Tiziana Vistarini,2019-06-12 The nature of space and time is one of the most fascinating and fundamental philosophical issues which presently engages at the deepest level with physics During the last thirty years this notion has been object of an intense critical review in the light of new scientific theories which try to combine the principles of both general relativity and quantum theory called theories of quantum gravity This book considers the way string theory shapes its own account of spacetime disappearance from the fundamental level

Particle-Laden Flow

Bernard Geurts,Herman Clercx,Wim Uijtewaal,2007-08-27 This book contains a selection of the papers that were presented at the EUROMECH colloquium on particle laden flow held at the University of Twente in 2006 The multiscale nature of this challenging field motivated the calling of the colloquium and reflects the central importance that the dispersion of particles in a flow has in various geophysical and environmental problems The spreading of aerosols and soot in the air the growth and dispersion of plankton blooms in seas and oceans or the transport of sediment in rivers estuaries and coastal regions are striking examples

Deep-Water Processes and Facies Models: Implications for Sandstone Petroleum Reservoirs

G. Shanmugam,2006-03-31 This rock based book is an attempt to link deep water process sedimentology with sandstone petroleum reservoirs In presenting a consistent process interpretation the author has relied on his description and interpretation of core and outcrop

1 20 to 1 50 scale from 35 case studies which include 32 petroleum reservoirs totaling more than 30 000 feet 9 145 m carried out during the past 30 years 1974 2004 This book should serve as an important source of information for students on history methodology first principles advanced concepts controversies and practical applications on deep water sedimentology and petroleum geology Discusses the link between deep water process sedimentology and petroleum geology Addresses criteria for recognizing deposits of gravity driven thermohaline driven wind driven and tide driven processes in deep water environments Provides head on approach to resolve controversial process related problems

Encyclopedia of Volcanoes

Haraldur Sigurdsson,Bruce Houghton,Hazel Rymer,John Stix,Steve McNutt,1999-10-23 Volcanoes are unquestionably one of the most spectacular and awe inspiring features of the physical world Our paradoxical fascination with them stems from their majestic beauty and powerful if sometimes deadly destructiveness Notwithstanding the tremendous advances in volcanology since ancient times some of the mystery surrounding volcanic eruptions remains today The Encyclopedia of Volcanoes summarizes our present knowledge of volcanoes Through its thematic organization around the melting of the earth it provides a comprehensive source of information on the multidisciplinary influences of volcanic eruptions both the destructive as well as the beneficial aspects The majority of the chapters focus on the geoscience related aspects of volcanism radioactive heat source melting rock ascent of magma surface phenomena associated with exiting magma extraterrestrial volcanism etc In addition complementary chapters discuss the multidisciplinary aspects of volcanism these include the history of volcanology geothermal energy resources interaction with the oceans and atmosphere health aspects of volcanism mitigation of volcanic disasters post eruption ecology and the impact of eruptions on organismal biodiversity In addition to its appeal to educators students and professional and amateur scientists the Encyclopedia of Volcanoes functions as an important information resource for administrators and officials responsible for developing and implementing volcanic hazard mitigation around the world The first and only reference work to cover all aspects of volcanology More than 80 separate peer reviewed articles all original contributions by leading authors from major institutions of science around the world commissioned for this work An integrated transition from the volcanic process through hazards risk and societal impacts with an emphasis on how volcanoes have influenced and shaped society Convenient single volume format with topics arranged thematically articles provide coverage of nine different aspects of volcanology Each entry in the Encyclopedia begins with an outline of the article content and a concise definition of the subject of the article 3 000 Glossary entries explain key terms Further Reading lists appear at the end of each entry Extensive cross referencing system links related articles Sixteen pages of color will convey the science and excitement of this often violent phenomena Large 8 1 2 x 11 page size easy to read double column format

Sedimentology and Sedimentary Basins

Mike R. Leeder,2011-08-02 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

Selected Water Resources

Abstracts, 1973 **Pyroclastic Density Currents and the Sedimentation of Ignimbrites** Michael J. Branney, B. Peter Kokelaar, 2002

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