

Encyclopedia Of Quaternary Science

Encyclopedia of Quaternary Science Encyclopedia of Quaternary Science Encyclopedia of Quaternary Science Statistical Modelling of Quaternary Science Data Encyclopedia of Quaternary Science Encyclopedia of Quaternary Science Journal of Quaternary Science, Vol. 4, No. 1, 1989 Journal of Quaternary Science, 1(1). 1986 Journal of Quaternary Science The Glaciological Basis of Quaternary Science Encyclopedia of Quaternary Science Quaternary Science Reviews The Geology of Scotland, 5th edition (paperback) Handbook of Sea-Level Research The Diatoms Treatise on Geomorphology Periglacial Geomorphology Glaciers and Glaciation, 2nd edition Glacier Science and Environmental Change Glaciogenic Reservoirs and Hydrocarbon Systems Cary Mock Darrel Maddy Kevin J. Edwards Tavi Murray D. Q. Bowen Martin Smith Ian Shennan John P. Smol Colin K. Ballantyne Douglas Benn Peter G. Knight Mads Huuse Encyclopedia of Quaternary Science Encyclopedia of Quaternary Science Encyclopedia of Quaternary Science Statistical Modelling of Quaternary Science Data Encyclopedia of Quaternary Science Encyclopedia of Quaternary Science Journal of Quaternary Science, Vol. 4, No. 1, 1989 Journal of Quaternary Science, 1(1). 1986 Journal of Quaternary Science The Glaciological Basis of Quaternary Science Encyclopedia of Quaternary Science Quaternary Science Reviews The Geology of Scotland, 5th edition (paperback) Handbook of Sea-Level Research The Diatoms Treatise on Geomorphology Periglacial Geomorphology Glaciers and Glaciation, 2nd edition Glacier Science and Environmental Change Glaciogenic Reservoirs and Hydrocarbon Systems Cary Mock Darrel Maddy Kevin J. Edwards Tavi Murray D. Q. Bowen Martin Smith Ian Shennan John P. Smol Colin K. Ballantyne Douglas Benn Peter G. Knight Mads Huuse

the second revised edition of the encyclopedia of quaternary science four volume set provides both students and professionals with an up to date reference work on this important and highly varied area of research there are lots of new articles and many of the articles that appeared in the first edition have been updated to reflect advances in knowledge since 2006 when the original articles were written the second edition will contain about 375 articles written by leading experts around the world this major reference work is richly illustrated with more than 3 000 illustrations most of them in colour research in the quaternary sciences has advanced greatly in the last 10 years especially since topics like global climate change geologic hazards and soil erosion were put high on the political agenda this second edition builds upon its award winning predecessor to provide the reader assured quality along with essential updated coverage contains 357 broad ranging articles 4310 pages written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field facilitates teaching and learning the first edition was regarded by many as the most significant single overview of quaternary science ever yet editor in chief scott elias has managed to surpass that in this second edition by securing even more expert reviews whilst retaining his renowned editorial consistency that enables readers to navigate seamlessly from one unfamiliar topic to the next

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the quaternary sciences constitute a dynamic multidisciplinary field of research that has been growing in scientific and societal importance in recent years this branch of the earth sciences links ancient prehistory to modern environments quaternary terrestrial sediments contain the fossil remains of existing species of flora and fauna and their immediate predecessors quaternary science plays an integral part in such important issues for modern society as groundwater resources and contamination sea level change geologic hazards earthquakes volcanic eruptions tsunamis and soil erosion with over 360 articles and 2 600 pages many in full color the encyclopedia of quaternary science provides broad ranging up to date articles on all of the major topics in the field written by a team of leading experts and under the guidance of an international editorial board the articles are at a level that allows undergraduate students to understand the material while providing active researchers with the latest information in the field also available online via sciencedirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy for more information pricing options and availability visit info sciencedirect com 360 individual articles written by prominent international authorities encompassing all important aspects of quaternary science each entry provides comprehensive in depth treatment of an overview topic and presented in a functional clear and uniform layout reference section provides guidance for further research on the topic article text supported by full color photos drawings tables and other visual material writing level is suited to both the expert and non expert

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uniform layout reference section provides guidance for further research on the topic article text supported by full color photos drawings tables and other visual material writing level is suited to both the expert and non expert

although a small country scotland s geology is complex internationally renowned and offers an accessible outdoor research laboratory and training ground for earth science the onshore and offshore geology together encompass examples of all earth s geological periods and preserve many classic examples of sedimentary basins and orogenic belts palaeontological findings have provided key evidence for the evolution of life with a wide spectrum of contributors full colour figures and photographs and for each chapter a topic box highlighting key research developments and challenges this 5th edition of the geology of scotland represents a major update and expansion from the 4th edition a revised introduction summarizes the geological evolution of scotland the nature of the crust and the societal relevance of geology to climate change and sustainability the final three chapters provide a modern view on energy water and minerals environmental concerns and geoconservation the intervening chapters cover the geological periods including much new geochronological data and exciting new palaeontological discoveries

measuring sea level change be that rise or fall is one of the most pressing scientific goals of our time and requires robust scientific approaches and techniques this handbook aims to provide a practical guide to readers interested in this challenge from the initial design of research approaches through to the practical issues of data collection and interpretation from a diverse range of coastal environments building on thirty years of international research the handbook comprises 38 chapters that are authored by leading experts from around the world the handbook will be an important resource to scientists interested and involved in understanding sea level changes across a broad range of disciplines policy makers wanting to appreciate our current state of knowledge of sea level change over different timescales and many teachers at the university level as well as advanced level undergraduates and postgraduate research students wanting to learn more about sea level change additional resources for this book can be found at wiley.com/go/shennan/sealevel

this much revised and expanded edition provides a valuable and detailed summary of the many uses of diatoms in a wide range of applications in the environmental and earth sciences particular emphasis is placed on the use of diatoms in analysing ecological problems related to climate change acidification eutrophication and other pollution issues the chapters are divided into sections for easy reference with separate sections covering indicators in different aquatic environments a final section explores diatom use in other fields of study such as forensics oil and gas exploration nanotechnology and archaeology sixteen new chapters have been added since the first edition including introductory chapters on diatom biology and the numerical approaches used by diatomists the extensive glossary has also been expanded and now includes over 1 000 detailed entries which will help non specialists to use the book effectively

the changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline the number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically as more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult the fourteen volumes of this treatise on geomorphology will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding earth s surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of earth s diverse surfaces this treatise on geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that educators and students researchers will find useful geomorphology has

advanced greatly in the last 10 years to become a very interdisciplinary field undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding editor in chief prof j f shroder of the university of nebraska at omaha is past president of the qgg section of the geological society of america and present trustee of the gsa foundation while being well respected in the geomorphology research community and having won numerous awards in the field a host of noted international geomorphologists have contributed state of the art chapters to the work readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the world expert volume editors and by the editor in chief himself no other reference work exists in the area of geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece from the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned

a fascinating and informative exploration of periglacial processes past and present and their role in landscape evolution periglacial geomorphology presents a comprehensive introduction to the processes that operate in present periglacial environments and discusses the inferences that can be drawn about former periglacial environments from those processes organized into six parts the book opens with the historical and scientific context of periglacial geomorphology and the nature of periglacial environments following chapters provide systematic coverage of the full range of topics germane to a thorough understanding of periglacial geomorphology including the physics of ground freezing and thawing characteristics of permafrost and the nature and origin of underground ice characteristics formation and significance of landforms sediments and structures associated with permafrost permafrost degradation and seasonal ground freezing and thawing rock weathering in periglacial environments periglacial processes operating on hillslopes and the characteristic landforms produced by rock breakdown and slope processes in cold environments the operation of fluvial aeolian and coastal processes in cold environments and the resulting distinctive landforms and sediments the use of relict periglacial features to reconstruct past cold environments in midlatitude regions and the responses of periglacial environments to recent and predicted climate change periglacial geomorphology is an important resource for undergraduate and graduate students studying geomorphology or quaternary science within the context of geography and geology degree programs it will be of use to all scientists whose research involves an understanding of cold environments whether from a geographical geological ecological climatological pedological hydrological or engineering perspective

glaciers and glaciation is the classic textbook for all students of glaciation stimulating and accessible it has established a reputation as a comprehensive and essential resource in this new edition the text references and illustrations have been thoroughly updated to give today's reader an up to the minute overview of the nature origin and behaviour of glaciers and the geological and geomorphological evidence for their past history on earth the first part of the book investigates the processes involved in forming glacier ice the nature of glacier climate relationships the mechanisms of glacier flow and the interactions of glaciers with other natural systems such as rivers lakes and oceans in the second part the emphasis moves to landforms and sediment the interpretation of the earth's glacial legacy and the reconstruction of glacial depositional environments and palaeoglaciology

glacier science and environmental change is an authoritative and comprehensive reference work on contemporary issues in glaciology it explores the interface between glacier science and environmental change in the past present and future written by the world's foremost authorities in the subject and researchers at the scientific frontier where conventional wisdom of approach comes face to face with unsolved problems this book provides state of the art reviews of the key topics in glaciology and related disciplines in environmental change cutting edge case studies of the latest research an interdisciplinary synthesis of the issues that draw together the research efforts of glaciologists and scientists from other areas such as geologists hydrologists and climatologists color plate section with selected extra figures provided in color at blackwellpublishing.com knight the topics in this book have been carefully chosen to reflect current priorities in research the interdisciplinary nature of the subject and the developing relationship between glaciology and studies of environmental change glacier science and environmental change is essential reading for advanced undergraduates postgraduate research students and professional researchers in glaciology geology geography geophysics climatology and related disciplines

glaciogenic reservoirs and hydrocarbon systems occur intermittently throughout the stratigraphic record with particular prominence in neoproterozoic late ordovician permo carboniferous and late cenozoic strata recent interest in glaciogenic successions has been fuelled by hydrocarbon discoveries in ancient glaciogenic reservoirs in north africa the middle east australia and south america glaciogenic deposits of pleistocene age are noteworthy for their content of groundwater onshore and potentially prospective and or hazardous gas accumulations offshore the abundant imprints of pleistocene glaciations in both hemispheres can be used to reconstruct complex histories of repeated ice cover and retreat and glacier bed interactions thus informing our view on the dynamics of older ice caps and predictions of future glaciations this volume aims to provide a better understanding of glaciogenic processes their stratigraphic record and reservoir characteristics of glaciogenic deposits the book comprises 3 overview papers and 16 original case studies of neoproterozoic to pleistocene successions on 6 continents and will be of interest to sedimentologists glaciologists geophysicists hydrologists and petroleum geologists alike p 4 of cover

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Introduction

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