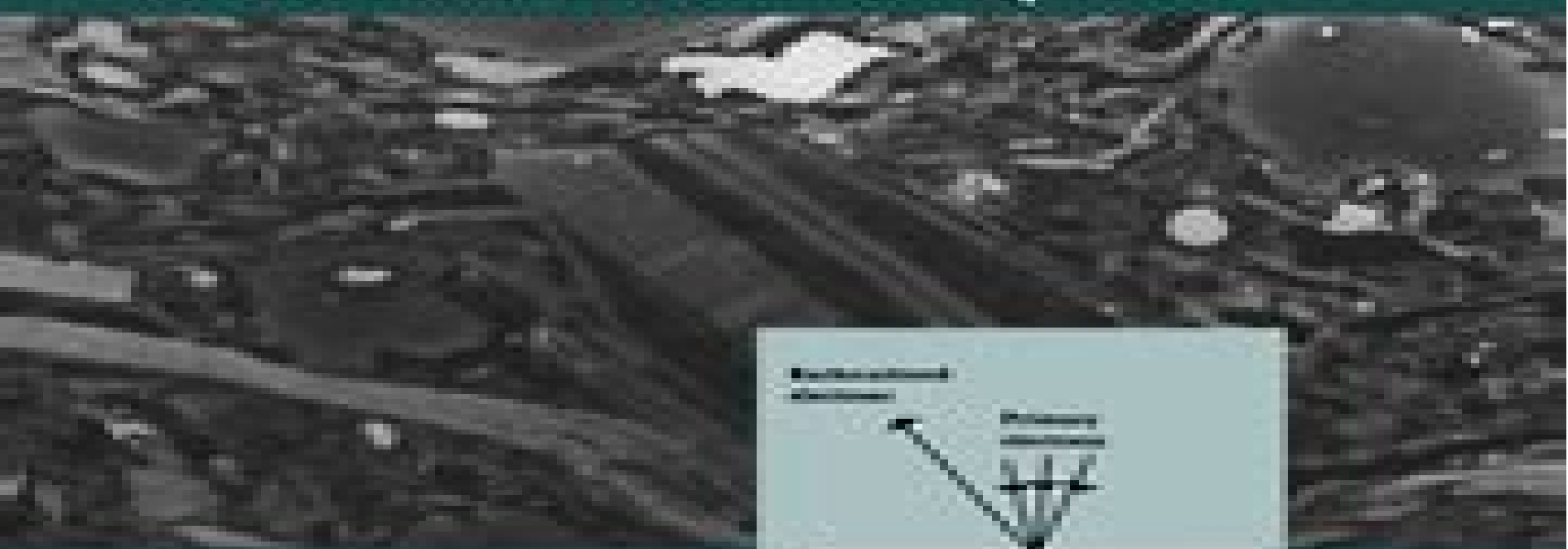


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Backscattered Scanning Electron Microscopy and Image Analysis of Sediments and Sedimentary Rocks



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Sam Boggs



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Image Analysis, Sediments and Paleoenvironments Pierre Francus, 2007-01-19 This is a guide to imaging techniques for sedimentologists, paleolimnologists, paleoceanographers, and microscopists involved in paleoenvironmental reconstruction. Case studies illustrate the range of information obtainable from different sediments, marine, lacustrine, aeolian, and different types of samples, cores, embedded blocks, microscopic slides using different regions of the electromagnetic spectrum: visible, UV, IR, X-ray. Includes comprehensive protocols, guidelines, and recommendations for the use of low-cost image analysis techniques.

Electron Microprobe Analysis and Scanning Electron Microscopy in Geology S. J. B. Reed, 2005-08-25 Originally published in 2005, this book covers the closely related techniques of electron microprobe analysis (EMPA) and scanning electron microscopy (SEM) specifically from a geological viewpoint. Topics discussed include principles of electron target interactions, electron beam instrumentation, X-ray spectrometry, general principles of SEM image formation, production of X-ray maps showing elemental distributions, procedures for qualitative and quantitative X-ray analysis, both energy-dispersive and wavelength-dispersive, the use of both true electron microprobes and SEMs fitted with X-ray spectrometers, and practical matters such as sample preparation and treatment of results. Throughout, there is an emphasis on geological aspects not mentioned in similar books aimed at a more general readership. The book avoids unnecessary technical detail in order to be easily accessible and forms a comprehensive text on EMPA and SEM for geological postgraduate and postdoctoral researchers, as well as those working in industrial laboratories.

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.

Forensic Geoscience

Kenneth Pye, Debra J. Croft, 2004 Forensic geoscience is an increasingly important sub discipline within geoscience and forensic science Although minerals soils dusts and rock fragments have been used as only begun to be recognized in the last ten years or so The police and other investigative bodies are keen to encourage such developments in the fight against crime particularly since many criminals show a high level of forensic awareness with regard to evidence such as fingerprints blood and other body fluids The papers in this volume illustrate some of the main principles techniques and applications in current forensic geoscience covering research and casework in the UK and internationally The techniques described range from macro scale field geophysical investigations to micro scale laboratory studies of the chemical and textural properties of individual particles In addition to forensic applications many of these techniques have broad utility in geological geomorphological soil science and archaeological research

Geological and Soil Evidence Kenneth Pye, 2007-04-19 The forensic potential of geological and soil evidence has been recognized for more than a century but recently these types of evidence are used much more widely as an investigative intelligence tool and as evidence in court There is however still a poor understanding of the potential value and the limitations of geological and soil evidence am

Treatise on Geomorphology, 2013-02-27 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

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Hutcheon, 2014-12-10 Now in its second edition Nuclear Forensic Analysis provides a multidisciplinary reference for forensic scientists analytical and nuclear chemists and nuclear physicists in one convenient source The authors focus particularly on the chemical physical and nuclear aspects associated with the production or interrogation of a radioactive sample Atlas of Sand Grain Surface Textures and Applications W. C. Mahaney, 2002 This volume reviews the microtextural literature of the last twenty five years since the publication of Sand Grain Surface Textures by D H Krinsley and J Doornkamp in 1973 which inaugurated the use of the SEM in sedimentology For over four decades the SEM has proved itself to be the instrument of choice in the analysis of microstructures whether they be mineral collages or intergrowths whole grain or partial grain microfeatures including microtextures dissolution characteristics and or precipitates coatings of various thicknesses and compositions Its high resolution stereo imagery coupled with energy dispersive spectrometry provides a level of compositional analysis that far exceeds the traditional light microscope With magnifications from 25 to 100 000X virtually the surface of any molecular structure can be seen and studied from microphotographs or electronic imagery together with printouts from an interlinked energy dispersive spectrometer EDS Offering an expanded list of microtextures new interpretations of them and an assessment of how they may be used to discriminate sedimentary environments this volume builds on the original Atlas and the work of practitioners worldwide Including engineering tests designed to reproduce glacial grains under controlled conditions in the laboratory new information on microtextures of heavy minerals applications in the earth forensic archaeologic and nutrition sciences together with the use of the secondary and CL modes of the SEM this book is a state of the art presentation of where sand grain microfeature analysis lies at present and where it intends to go in the future **The Oxford Handbook of Wetland Archaeology** Francesco Menotti, Aidan O'Sullivan, 2012-12-20 The Oxford Handbook of Wetland Archaeology is the most comprehensive survey of global wetland archaeology ever published Well known for the spectacular quality of its surviving evidence from both an archaeological and environmental perspective wetland archaeology enables scholars to investigate and reconstruct past people s dwellings landscapes material culture and

daily lives in great detail Through concise essays written by some of the world's leading scholars in the field this Handbook describes the key principles methodologies and revealing results of past and present archaeological investigations of wetland environments The volume provides unique insights into past human interactions with lakes bogs rivers and coastal marshlands across the world from prehistory to modern times Opening with a detailed introduction by the editors the Handbook is divided into seven parts and contains 54 essays and over 230 photographs figures maps and graphs **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 Tracking Environmental Change Using Lake Sediments William M. Last, John P. Smol, 2006-04-11 Theory Instrumentation NIR analysis of sediment samples Uses of NIRS in palaeolimnology Future perspectives Summary References Fly ash particles Neil Rose 319 12 Introduction A brief history Methods of extraction and enumeration Temporal distribution Spatial distribution Source apportionment The future Summary Acknowledgements References Part III Stable Isotope Techniques 13 Application of stable isotope techniques to inorganic and biogenic carbonates Emi Ito 351 Introduction Nomenclature and systematics of lake water Mg Ca and Sr Ca ratios of lake water of dissolved inorganic carbon DIC Carbonates in lake sediments Mollusks Ostracodes Charophytes Isotope analysis Preparation of carbonate samples for isotope analysis Conclusions Summary Acknowledgments References 14 Carbon and oxygen isotope analysis of lake sediment cellulose methods and applications Brent B Wolfe Thomas W D Edwards Richard J Elgood Kristina R M Beuning 373 xi Introduction Stable isotope tracers in lake Historical development Methods Key criteria for paleohydrologic reconstruction Applications Future research directions Summary Acknowledgements References Nitrogen isotopes in palaeolimnology Michael R Talbot 15 401 Introduction Nitrogen in lakes forms and distribution Nitrogen isotopes Nitrogen isotope studies in palaeolimnology sampling and measurement Some examples Closing remarks Summary Acknowledgments References Glossary acronyms and abbreviations 441 Index 493 xiii PREFACE

The explosive growth of paleolimnology over the past two decades has provided impetus for the publication of this series of monographs detailing the numerous advances and new techniques being applied to the interpretation of lake histories This is the second volume in the series and deals mainly with physical and geochemical analytical techniques **Apatites and their Synthetic Analogues** Petr Ptáček, 2016-04-13 Apatite type minerals and their synthetic analogues are of interest of many industrial branches and scientific disciplines including material sciences chemical industry agriculture geology medicine and dentistry This book provides a basic overview of general knowledge of this topic in order to provide the comprehensive survey from a scientific and technological perspective The book is divided into 10 chapters which are devoted to the structure and properties of minerals from the supergroup of apatite experimental techniques of preparation and characterization of synthetic analogues of apatite minerals substitution in the structure of apatite as well as utilization of these materials in wide range of common and special advanced applications in industry material sciences and research Additionally the phosphate rocks their classification geological role mining and beneficiation of phosphate ore production of elemental phosphorus phosphoric acid and fertilizers are also described Although this book is meant for chemist material scientist and research engineers the individual chapters contain theoretical background historical aspects as well as examples of synthetic and analytical methods which may be also interesting for students and non expert readers as well

Encyclopaedia of Petroleum Science and Engineering S. L. Sah, 2003-10 Petroleum is an art To search for petroleum requires a multidisciplinary approach The various geological geophysical and geochemical surveys points towards the most probable geographical locations favorable geological structures **Surface Enhanced Raman Spectroscopy for Biophysical Applications** Claudia Fasolato, 2018-12-05 The book explores the phenomenon of surface enhanced Raman scattering SERS the huge amplification of Raman signal from molecules in the proximity of a metallic nanostructured surface allowing readers to gain an in depth understanding of the mechanisms affecting the spectroscopic response of SERS active systems for effective applications SERS spectroscopy is an ultrasensitive analytical technique with great potential for applications in the field of biophysics and nanomedicine As examples the author presents the design of nanocolloid based SERS active substrates for molecular sensing and of a folate based SERS active nanosensor capable of selectively interacting with cancer cells enabling cancer diagnostics and therapy at the single cell level The author also suggests novel paths for the systematization of the SERS nanosystem design and experimental protocols to maximize sensitivity and reproducibility which is essential when real world biomedical applications are the goal of the study With a combined approach both fundamental and applied and a detailed analysis of the state of the art this book provides a valuable overview both for students new to SERS spectroscopy and for experts in the field **Heritage, Weathering and Conservation, Two Volume Set** Rafael Fort, Monica Alvarez de Buergo, Miguel Gomez-Heras, Carmen Vazquez-Calvo, 2006-06-01 The conservation of cultural heritage is a major commitment for all countries around the world since it is a complex task and a matter of great

responsibility Amongst other sectors of society science has a contribution to make to heritage preservation This book is the result of the international conference Heritage Weathering and Conservation HWC2006 held in Madrid Spain in 2006 It brought together prominent scientists and professionals from a variety of disciplines who have been active in the field and have raised the profile of heritage preservation The main aspects addressed at this conference were those related to the causes of decay of cultural materials stone ceramics metals paintings mortars timber adobes etc the characterization of their properties and the assessment of analytical techniques for their study with a focus on non destructive techniques Many of the studies stress the importance of salt crystallization atmospheric pollution and biodeterioration and relate these specific factors to decay A variety of case studies are included as well as an examination of policies and management This book will be useful to professionals and scientists working in a variety of fields related to heritage geologists geographers chemists physicists biologists architects engineers restorers historians archaeologists policy makers and the general public

Geomechanical and Petrophysical Properties of Mudrocks E.H. Rutter,J. Mecklenburgh,K.G. Taylor ,2017-10-09 A surge of interest in the geomechanical and petrophysical properties of mudrocks shales has taken place in recent years following the development of a shale gas industry in the United States and elsewhere and with the prospect of similar developments in the UK Also these rocks are of particular importance in excavation and construction geotechnics and other rock engineering applications such as underground natural gas storage carbon dioxide disposal and radioactive waste storage They may greatly influence the stability of natural and engineered slopes Mudrocks which make up almost three quarters of all the sedimentary rocks on Earth therefore impact on many areas of applied geoscience This volume focuses on the mechanical behaviour and various physical properties of mudrocks The 15 chapters are grouped into three themes i physical properties such as porosity permeability fluid flow through cracks strength and geotechnical behaviour ii mineralogy and microstructure which control geomechanical behaviour and iii fracture both in laboratory studies and in the field

Handbook of Nuclear Chemistry Attila Vértes,Sándor Nagy,Zoltán Klencsár,Rezso György Lovas,Frank Rösch,2010-12-10 This revised and extended 6 volume handbook set is the most comprehensive and voluminous reference work of its kind in the field of nuclear chemistry The Handbook set covers all of the chemical aspects of nuclear science starting from the physical basics and including such diverse areas as the chemistry of transactinides and exotic atoms as well as radioactive waste management and radiopharmaceutical chemistry relevant to nuclear medicine The nuclear methods of the investigation of chemical structure also receive ample space and attention The international team of authors consists of scores of world renowned experts nuclear chemists radiopharmaceutical chemists and physicists from Europe USA and Asia The Handbook set is an invaluable reference for nuclear scientists biologists chemists physicists physicians practicing nuclear medicine graduate students and teachers virtually all who are involved in the chemical and radiopharmaceutical aspects of nuclear science The Handbook set also provides further reading via the rich selection of references Methods of

Soil Analysis Soil Science Society of America, April L. Ulery, L. Richard Drees, 2008 The latest installment in the well received Methods of Soil Analysis series Methods of Soil Analysis Part 5 Mineralogical Methods presents valuable techniques that will enable researchers to analyze mineralogy for a wide variety of applications An understanding of mineralogical composition provides crucial insight into the fundamental behavior of soils and their response to environmental conditions and management Highlights include extensive coverage of new techniques such as X ray absorption and diffuse reflectance spectroscopy and updated chapters on thermal analysis and selective dissolution methodologies Each chapter provides the basic principles of the method guides the reader through the method itself and finally assists in the interpretation and analysis of results collected

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