

Sediments Of Time On Possible Histories

This guidebook, now thoroughly updated and revised in its second edition, gives comprehensive advice on the designing and setting up of monitoring programmes for the purpose of providing valid data for water quality assessments in all types of freshwater bodies. It is clearly and concisely written in order to provide the essential information for all agencies and individuals responsible for the water quality.

This Companion provides a wide-ranging and up-to-date overview of the conceptual issues that history as a discipline and mode of thought gives rise to. The book offers both historical and systematic treatments of these issues, as well as addressing their contemporary relevance. Structured in three parts – Modes and Schools of Historical Thought, Epistemology and Metaphysics of History, and Issues and Challenges in Historical Theory – it offers the reader a wide scope and expert treatment of each topic in this vibrant field that can be read in any order. An international team of experts both discuss the basis of their topic and present their own view, offering the reader a cutting-edge contribution while ensuring their chapters are of interest to both students and specialists in the field of historical theory and engaging with the very nature of historical thought, the metaphysics of historical existence, the politics of history-writing, and the intelligibility of the historical process. The volume is an indispensable companion to the study of history and essential reading for anyone interested in the reflection on the nature of history and our historical existence.

The World of Discovery Collection is a specially curated selection of children's books that focus on discovering Asia and discovering STEM (Science, Technology, Engineering and Maths). Under the guidance of Dr Ruth Y L Wong, these books aim to promote reading for pleasure, while exciting kids through discovery. With 51 books in this inaugural batch, and with more to come, the books are divided into three levels depending on the child's reading ability: A (Achieving), B (Blooming) and C (Confident). Level B Set 2 features nine titles, exploring themes of science, imagination, nature and global stories. Intended outcomes of Level B include teaching children to be able to: - follow a text when it is being read aloud - turn the page at the right time - sound out at least 70% of the words in the book - read simple sentences - enjoy being read to Each book includes a story-based activity at the end of the books to help parents and educators get children to engage with the story. Includes these 9 titles: Brave Beachley (Sisu Girls series) Brave Beachley tells the tale of Australian layne Beachley and how she chased her dream to become a world champion surfer. Because tough times are sure to happen. They are part and parcel of life's plan. But don't let those tough times stop you, pick yourself up and say: 'I CAN!' Fearless Frosty (Sisu Girls series) Fearless Frosty tells the story of New Zealander Anna Frost and how she chased her dream to become a professional mountain runner. Whatever it is, go after it. Find the thing that makes you fly! Because one thing is for certain: You'll never know unless you try. Mighty Mira (Sisu Girls series) Mighty Mira tells the tale of Nepali Mira Rai and how she chased her dream to become a professional mountain runner. The moral of my story: Live the moment, live the now. Don't worry if you don't know the path, Have courage, and you'll discover how. Panjang: The Tall Boy Who Became Prime Minister Panjang is the tallest kid around. He hates standing out, but little does he know, he's on his way to greater heights ... This book tells the childhood story of Singapore's second prime minister, Goh Chok Tong, and how he conquered his self-consciousness to become a leader. This tall tale inspires children to embrace the things that make them different. Tun Dr Siti Hasmah Mohd Ali: The Accidental Doctor Meet Siti Hasmah, a little girl, who wanted to be a journalist, in a period when not every girl was sent to school. Find out how she coped when World War II struck. Walk in her footsteps as she graduated from university and went on to save the lives of many Malaysian women and children. See what she finally ended up being. Meme the Monkey: Wins in Life We all like to win and do well. But what does it really mean to win in life? Meme the Monkey wants to do well and tries her very best to. But she soon learns that doing well in life is not just about scoring high marks in her exams - there are other more important things. I Really, Really Don't Like Water! (Wow Wild Asia series) Boleh the otter pup really, really does not like water. Mama starts him on swimming lessons. What should he do? Can he ever get used to the water? Read Boleh's splashy tale of learning new skills and the good surprise that comes with it. I Really, Really Don't Like Heights! (Wow Wild Asia series) Sayang the Leopard cub really, really does not like heights. When Sayang playfully chases after the bird, he ends too high up in a tree. Can Bear, Monkey and Squirrel help Sayang find his footing and courage to climb down the tree? I Really, Really Don't Like Bees! (Wow Wild Asia series) Tahan the bear cub really, really does not like bees. Tahan is nervous when he joins Papa for his first trip to a beehive. Will he succeed in collecting any honey? Can he ever put up with buzzing, swarming bees?

Soil is an irreplaceable resource that sustains life on the planet, challenged by food and energy demands of an increasing population. Therefore, soil contamination constitutes a critical issue to be addressed if we are to secure the life quality of present and future generations. Integrated efforts from researchers and policy makers are required to develop sound risk assessment procedures, remediation strategies and sustainable soil management policies. Environmental Risk Assessment of Soil Contamination provides a wide depiction of current research in soil contamination and risk assessment, encompassing reviews and case studies on soil pollution by heavy metals and organic pollutants. The book introduces several innovative approaches for soil remediation and risk assessment, including advances in phytoremediation and implementation of metabolomics in soil sciences.

Environment and Society in Chinese History

Influences on Compositional Change from Source to Sink

New Horizons for Research on Earth's Surface

Physical Geology

Tracking Environmental Change Using Lake Sediments

An Introduction to Hydraulics of Fine Sediment Transport

This book is a comprehensive treatment of fine particle magnetism and the magnetic properties of rocks. Starting from atomic magnetism and magneostic principles, the authors explain why domains and micromagnetic structures form in ferromagnetic crystals and how these lead to magnetic memory in the form of thermal, chemical and other remanent magnetizations.

This book will be of value to graduate students and researchers in geophysics and geology, particularly in paleomagnetism and rock magnetism, as well as physicists and electrical engineers interested in fine-particle magnetism and magnetic recording.

Dramatic advances in understanding global tectonics have been made in the last half century and the information and specific data acquired on the floor of the World Ocean by the scientific community probably has exc- ded that available in all previous time. With the benefit of new technology and advanced concepts in the earth sciences extensive exploration of the deep seabed became possible, and has been carried out in many parts of the world. Many features have been recognized and data recorded that are vital for understanding the fundamental processes that shape the earth's surface and control the habitable environment. The data collected to date on the o- an floor and its physical environment greatly exceeds our understanding and appreciation of their fundamental importance in the earth sciences, and our ability to apply this knowledge effectively in improving our way of life. With his extensive scientific knowledge and unique experience from - ny cruises in association with scientists throughout the world, Dr. Evgeny Gurvich has made an outstanding contribution in acquiring basic data on hydrothermal and sedimentation processes in the ocean, as well as in the synthesis of data and concepts available from cruise reports and an extensive literature.

Focusing on the notion of representation and on the necessity of distinguishing between representation and description, this book argues that the traditional semantic apparatus of meaning, truth, and reference that we use for description must be redefined if we are to understand properly the nature of historical writing.

As part of its continuing program to stimulate superior basic research in the marine environment, the Office of Naval Research, Ocean Science and Technology Division, sponsored a series of closed seminar-workshops in 1972-1973. Each seminar focused upon one re search area of marine geology which is relatively new and in need of a critical evaluation and accelerated support. The subjects areas chosen for the seminars were: 1. natural gases in marine sediments and their mode of distribution, 2. nephelometry and the optical properties of ocean waters, 3. physical and engineering properties of deep-sea sediments, and 4. physics of sound in marine sediments. The objectives of each seminar-workshop were to bring into sharper focus the state-of-the-science within each subject area, to effect some degree of coordination among the investigators working within each of these areas and to provide the Ocean Science and Technology Division guidance for national program support. This volume contains most of the papers presented at the semi nar on the physical and engineering properties of deep-sea sediments. The seminar was held at Airile House, Airile, Virginia on April 24- 27, 1973 and was organized and chaired by A. Inderbitzen. The at tendees were invited from among the leading investigators in this field from both the engineering and scientific disciplines. Each attendee was requested to prepare a paper within his area of spe ciality.

Bioavailability of Contaminants in Soils and Sediments

Protocol for Evaluating the Nitrogen Status of Lake Sediments

Earth Crust

Metalliferous Sediments of the World Ocean

A guide to the use of biota, sediments and water in environmental monitoring, Second Edition

Deep-Sea Sediments

'Deep-Sea Sediments' focuses on the sedimentary processes operating within the various modern and ancient deep-sea environments. The chapters track the way of sedimentary particles from continental erosion or production in the marine realm, to transport into the deep sea, to final deposition on the sea floor.

During geologic spans of time, Earth's shifting tectonic plates, atmosphere, freezing water, thawing ice, flowing rivers, and evolving life have shaped Earth's surface features. The resulting hills, mountains, valleys, and plains shelter ecosystems that interact with all life and provide a record of Earth surface processes that extend back through Earth's history. Despite rapidly growing scientific knowledge of Earth surface interactions, and the increasing availability of new monitoring technologies, there is still little understanding of how these processes generate and degrade landscapes. Landscapes on the Edge identifies nine grand challenges in this emerging field of study and proposes four high-priority research initiatives. The book poses questions about how our planet's past can tell us about its future, how landscapes record climate and tectonics, and how Earth surface science can contribute to developing a sustainable living surface for future generations.

An interdisciplinary approach to solar physics, as eighty-nine contributors trace the evolution of the Sun and provide a review of our current understanding of both its structure and its role in the origin and evolution of the solar system.

Meave Leakey's thrilling, high-stakes memoir—written with her daughter Samira—encapsulates her distinguished life and career on the front lines of the hunt for our human origins, a quest made all the more notable by her stature as a woman in a highly competitive, male-dominated field.

Methods for collection, storage and manipulation of sediments for chemical and toxicological analyses technical manual.

Biological Remediation of Contaminated Sediments with Special Emphasis on the Great Lakes

Water Quality Assessments

The Bed-load Function for Sediment Transportation in Open Channel Flows

Haunting History

Surface Temperature Reconstructions for the Last 2,000 Years

This book presents observations on the phenomena of fine sediment transport and their explanations under process-related divisions such as flocculation, erosion, and deposition. The text is a compilation of the author's lecture notes from nearly four decades of teaching and guiding graduate students in civil and coastal engineering. Illustrations of fine sediment transport processes and their complexities given in the book are taken from field and laboratory-based observations by the author and his students, as well as numerous investigators. The wide-ranging composition of particles (of inorganic and organic matter), their universal presence and their complex interactions with hydraulic forces make this branch of science a difficult one to deal with in a single treatise. It is therefore essential to study fine sediment transport as an independent subject rather than cover it in no more than a single chapter as many texts on coarse sediment transport do. Even though the entire coverage is "introductory", the twelve chapters collectively include more material than what can be reasonably dealt with in a one semester, three-credit course. The book includes an extensive description of the components of fine-grained, especially cohesive— sediment transport. It covers the development of the subject in scientific and engineering applications mainly from the 1950s to its present state. Solved examples and chapter-end exercises are also included. This text is aimed at senior civil engineering undergraduates and graduate students who, in the normal course of their study, seldom come across the subject of fine sediment transport in their curricula. Interested students should have a basic understanding of the mechanics of fluid flow and open channel hydraulics.

The collection of papers presented in this book illustrates the recent progress made in varved sediment research and highlights the large variety of methodological approaches and research directions applied. The contributions cover monitoring of modern sediment fluxes using sediment traps; geochronological and sedimentological analyses of annually laminated lacustrine sediments or varves; and multiproxy investigations, including geochemical and biological proxies as well as spatiotemporal analyses based on multicore studies supported by satellite images and X-ray computed tomography (CT). The scientific issues discuss the influences of hydrological and climatological phenomena on short-term changes in sediment flux, the relationships between biogeochemical (limnological) processes in the water column and the formation of varves, the preservation of environmental signals in varved sediments, and possibilities of synchronizing varved records with other high-resolution environmental archives such as tree rings.

The notion of suspended sand particles is studied in detail with emphasis on the possible suspension maintaining mechanisms in coastal flows. Sediment pickup functions are provided for unsteady flows. A new combined convection-diffusion model is provided for suspended sediment distributions. Different methods of sediment transport model building are presented together with some classical models.

The book aims to cover the basics of the architecture, structure, evolution, and dynamics of the Earth's crust through an anthology of contributed chapters that will enlighten readers about the various aspects of the Earth's crust, including the existence, development, and sustainability of our modern lifestyles on its surface.

In response to a request from Congress, Surface Temperature Reconstructions for the Last 2,000 Years assesses the state of scientific efforts to reconstruct surface temperature records for Earth during approximately the last 2,000 years and the implications of these efforts for our understanding of global climate change. Because widespread, reliable temperature records are available only for the last 150 years, scientists estimate temperatures in the more distant past by analyzing "proxy evidence," which includes tree rings, corals, ocean and lake sediments, cave deposits, ice cores, boreholes, and glaciers. Starting in the late 1990s, scientists began using sophisticated methods to combine proxy evidence from many different locations in an effort to estimate surface temperature changes during the last few hundred to few thousand years. This book is an important resource in helping to understand the intricacies of global climate change.

Sediment Provenance: Influences on Compositional Change from Source to Sink provides a thorough and inclusive overview that features data-based case studies on a broad range of dynamic aspects in sedimentary rock structure and deposition. Provenance data plays a critical role in a number of aspects of sedimentary rocks, including the assessment of palaeogeographic reconstructions, the constraints of lateral displacements in orogens, the characterization of crust which is no longer exposed, the mapping of depositional systems, sub-surface correlation, and in predicting reservoir quality. The provenance of fine-grained sediments on a global scale has been used to monitor crustal evolution, and sediment transport is paramount in considering restoration techniques for both watershed and river restoration. Transport is responsible for erosion, bank undercutting, sandbar formation, aggradation, gullying, and plugging, as well as bed form migration and generation of primary sedimentary structures. Additionally, the quest for reservoir quality in contemporary hydrocarbon exploration and extraction necessitates a deliberate focus on diagenesis. This book addresses all of these challenges and arms geoscientists with an all-in-one reference to sedimentary rocks, from source to deposition. Provides the latest data available on various aspects of sedimentary rocks from their source to deposition Features case studies throughout that illustrate new data and critical analyses of published data by some of the world's most pre-eminent sedimentologists Includes more than 150 illustrations, photos, figures, and diagrams that underscore key concepts

F.R. Ankersmit

Processes, Tools, and Applications

Sediment Provenance

Deep-sea Sediments

Sediment Dredging at Superfund Megasites

From Fundamentals to Modeling

Francis Hartog explores crucial moments of change in society's Öregimes of historicity Ö or its way of relating to the past, present, and future. Inspired by French, Koselleck, and Ricoeur, Hartog analyzes a broad range of texts, positioning The Odyssey as a work on the threshold of a historical consciousness and then contrasting it against an investigation of the anthropologist Marshall Sahlins's concept of Öheroic history, Ö He tracks changing perspectives on time in Chöteaubriand's Historical Essay and Travels in America, and sets them alongside other writings from the French Revolution. He revisits the insight of the French Annals School and situates Pierre Nora's Realms of Memory within a history of heritage and our contemporary presentism. Our presentist present is by no means uniform or clear-cut, and it is experienced very differently depending on one's position in society. There are flows and acceleration, but also what the sociologist Robert Castel calls the Östatus of casual workers, Ö whose present is languishing before their very eyes and who have no past except in a complicated way (especially in the case of immigrants, exiles, and migrants) and no real future (since the temporality of plans and projects is denied them). Presentism is therefore experienced as either emancipation or enclosure, in some cases with ever greater speed and mobility and in others by living from hand to mouth in a stagnating present. Hartog also accounts for the fact that the future is perceived as a threat and not a promise. We live in a time of catastrophe, one he feels we have brought upon ourselves.

Sediments of Time features the most important essays by renowned German historian Reinhart Koselleck not previously available in English, several of them essential to his theory of history. The volume sheds new light on Koselleck's crucial concerns, including his theory of sediments of time; his theory of historical repetition, duration, and acceleration; his encounters with philosophical hermeneutics and political and legal thought; his concern with the limits of historical meaning; and his views on historical commemoration, including that of the Second World War and the Holocaust. A critical introduction addresses some of the challenges and potentials of Koselleck's reception in the Anglophone world.

Backscattered scanning electron microscopy (BSE) reveals the minerals, textures, and fabrics of sediments and rocks in much greater detail than is possible with conventional optical microscopy. Backscattered Scanning Electron Microscopy provides a concise summary of the BSE technique. This comprehensive guide uses abundant images to illustrate the type of information BSE yields and the application of the technique to the study of sediments and sedimentary rocks. The authors review the use of this petrographic technique on all the major sedimentary rock types, including sedimentary grains, sandstones, shales, carbonate rocks, rock varnish, and glauconite. They also describe image analysis techniques that allow quantification of backscattered scanning electron microscope images. Heavily illustrated and lucidly written, this book will provide researchers and graduate students with the most current research on this important geological tool.

Biofilms of the natural world, lakes and other water bodies contain contaminated sediments that can adversely affect fish and wildlife and may then find their way into people's diets. Dredging is one of the few options available for attempting to clean up contaminated sediments, but it can uncover and re-suspend buried contaminants, creating additional exposures for wildlife and people. At the request of Congress, EPA asked the National Research Council (NRC) to evaluate dredging as a cleanup technique. The book finds that, based on a review of available evidence, dredging's ability to decrease environmental and health risks is still an open question. Analysis of pre-dredging and post-dredging at about 20 sites found a wide range of outcomes in terms of surface sediment concentrations of contaminants: some sites showed increases, some no change, and some decreases in concentrations. Evaluating the potential long-term benefits of dredging will require that the U.S. Environmental Protection Agency step up monitoring activities before, during and after individual cleanups to determine whether it is working there and what combinations of techniques are most effective.

Applications in Water Systems Management and Modeling

Sediments of Time

The Sediments of Time

QA/QC guidance for sampling and analysis of sediments, water, and tissues for dredged material evaluations chemical evaluations

On Possible Histories

Oil in the Sea III

With the growth of urbanization, industrialization, and intensive agricultural practices, all superficial, inland, and marine water bodies have become the repository for large quantities of every type of substance extraneous to the natural aquatic environment. The knowledge of hydrodynamics becomes crucial in this context, as it is the driving mechanism for the movement and transport of these matters and of sediments that become collectors of these matters. The best way to understand these natural processes is via examples and case studies. This book deals with practical studies of hydrodynamic processes through physical and numerical models. Researchers, together with practicing engineers, will find this book useful in making a rapid assessment of different environmental water body problems.

This new collection of previously untranslated essays by renowned German conceptual historian and theorist Reinhart Koselleck provides new insight into his theory of history, an ambitious attempt to unearth the conditions of all possible histories. A practical guide to the latest techniques to measure sediments, seabed, water and transport mechanisms in estuaries and coastal waters. Covering a broad range of topics, enough background is included to explain how each technology functions. A review of recent fieldwork experiments demonstrates how modern methods apply in real-life scenarios.

This book covers hydrocarbon pollution, measurement techniques for hydrocarbons, risk assessment, and environmental impact. This comprehensive book takes a broad view of the subject and integrates a wide variety of approaches. This book attempts to address the needs of graduate and postgraduate students and other professionals or readers interested in food, soil, water, and air pollution. The aim of this book is to explain and clarify important studies, and compare and develop the new and ground-breaking measurement techniques. Written by leading experts in their respective areas, the book is highly recommended to professionals interested in environmental and human health because it provides specific and comprehensive examples.

Landscapes on the Edge

My Lifelong Search for the Past

Assessing the Effectiveness

Regimes of Historicity

Inputs, Fates, and Effects

The Routledge Companion to Historical Theory

Since the early 1970s, experts have recognized that petroleum pollutants were being discharged in marine waters worldwide, from oil spills, vessel operations, and land-based sources. Public attention to oil spills has forced improvements. Still, a considerable amount of oil is discharged yearly into sensitive coastal environments. Oil in the Sea provides the best available estimate of oil pollutant discharge into marine waters, including an evaluation of the methods for assessing petroleum load and a discussion about the concerns these loads represent. Featuring close-up looks at the Exxon Valdez spill and other notable events, the book identifies important research questions and makes recommendations for better analysis of oil and more effective measures against oil pollutant discharge. The book discusses: Input where the discharges come from, including the role of two-stroke engines used on recreational craft. Behavior of oil how oil is affected by processes such as evaporation as it moves through the marine environment. Effects what we know about the effects of petroleum hydrocarbons on marine organisms and ecosystems. Providing a needed update on a problem of international importance, this book will be of interest to energy policy makers, industry officials and managers, engineers and researchers, and advocates for the marine environment.

This book argues for a deconstructive approach to the past by looking at deconstruction's impact on American historians and then presenting an alternative hauntological theory and method of history influenced by, but not beholden to, the work of Jacques Derrida.

This first volume in the Developments in Paleoenvironmental Research series deals with the acquisition and archiving of lake sediment cores, chronological techniques, and large-scale basin analysis methods used in paleolimnology. Other volumes deal with physical and geochemical parameters and methods (Volume 2), biological techniques (Volumes 3 and 4), and statistical and data handling methods (Volume 5). These monographs provide sufficient detail and breadth to be useful handbooks for both seasoned practitioners as well as newcomers to the area of paleolimnology. Although the chapters in these volumes target mainly lacustrine settings, many of the techniques described can also be readily applied to fluvial, glacial, marine, estuarine, and peatland environments.

Physical Geology is a comprehensive introductory text on the physical aspects of geology, including rocks and minerals, plate tectonics, earthquakes, volcanoes, glaciation, groundwater, streams, coasts, mass wasting, climate change, planetary geology and much more. It has a strong emphasis on examples from western Canada, especially British Columbia, and also includes a chapter devoted to the geological history of western Canada. The book is a collaboration of faculty from Earth Science departments at Universities and Colleges across British Columbia and elsewhere"—BCcampus website.

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

Volume 1: Basin Analysis, Coring, and Chronological Techniques

Annually Laminated Lake Sediments

Report of a Workshop, Manitowish, Wisconsin, July 17-19, 1990

Estuarine and Coastal Hydrography and Sediment Transport

Presentism and Experiences of Time

Determination of Metals in Natural Waters, Sediments and Soils provides analytic labs with a comprehensive overview of the various methods available for analysis of metals and serves as a manual to determine metal concentrations in different media such as natural waters, waste waters, sediments and soils. The book begins with a discussion of sampling techniques and preservation and then covers metals in rivers, surface ground and mineral waters and metals in aqueous precipitation. It concludes with detailed information on analysis of metals in sediments. Determination of Metals in Natural Waters, Sediments and Soils provides a foundation for informed action by environmental interest groups and regulators and a starting point for further study by graduate students, professionals, and researchers. Includes all of the methods currently available to assess metals in water, sediments and soils Covers metals in surface ground and mineral waters Summarizes the strengths, weakness and precautions of different methods and provides a table summarizing the methods with reference citations

"This book by Lisa Tauxe and others is a marvelous tool for education and research in Paleomagnetism. Many students in the U.S. and around the world will welcome this publication, which was previously only available via the Internet. Professor Tauxe has performed a service for teaching and research that is utterly unique."—Neil D. Opdyke, University of Florida

Coastal Bottom Boundary Layers And Sediment Transport

Environmental Risk Assessment of Soil Contamination

Physical and Mechanical Properties

Fundamentals and Frontiers

Fundamental Theory of Deep-Sea Hydrothermal Sedimentation

The Sun in Time