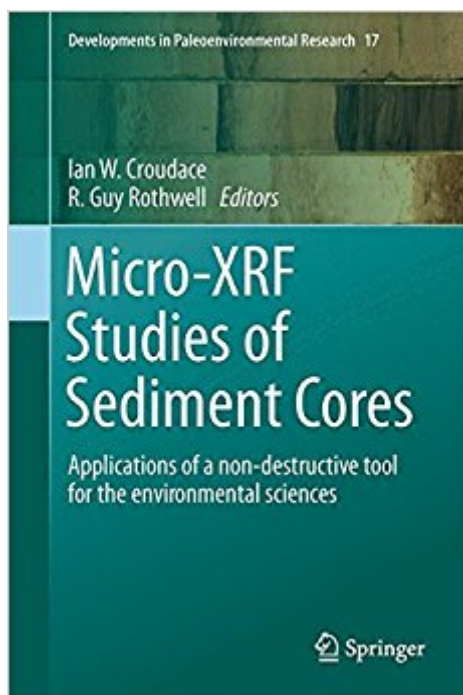


The book was found

Micro-XRF Studies Of Sediment Cores: Applications Of A Non-destructive Tool For The Environmental Sciences (Developments In Paleoenvironmental Research)



Synopsis

This volume presents papers on the use of micro-XRF core scanners in palaeoenvironmental research. It contains a broad ranging view of instrument capability and points to future developments that will help contribute to higher precision elemental data and faster core analysis. Readers will find a diverse range of research by leading experts that have used micro-XRF core scanners in a wide range of scientific applications. The book includes specific application papers reporting on the use of XRF core scanners in a variety of marine, lacustrine, and pollution studies. In addition, coverage also examines practical aspects of core scanner usage, data optimisation and data calibration and interpretation. In a little over a decade, micro-XRF sediment core scanners have made a substantive contribution to palaeoenvironmental research. Their impact is based on their ability to rapidly, non-destructively and automatically scan sediment cores. Not only do they rapidly provide important proxy data without damaging samples, but they can obtain environmental data at decadal, annual and even sub-annual scales. This volume will help both experienced and new users of these non-destructive core scanners take full advantage of one of the most powerful geochemical screening tools in the environmental scientist's toolbox.

Book Information

Series: Developments in Paleoenvironmental Research (Book 17)

Hardcover: 656 pages

Publisher: Springer; 1st ed. 2015 edition (July 27, 2015)

Language: English

ISBN-10: 9401798486

ISBN-13: 978-9401798488

Product Dimensions: 6.1 x 1.4 x 9.2 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,945,913 in Books (See Top 100 in Books) #72 in Books > Science & Math > Earth Sciences > Geology > Sedimentary #996 in Books > Textbooks > Engineering > Environmental Engineering #4213 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Environmental

Customer Reviews

This volume presents papers on the use of micro-XRF core scanners in palaeoenvironmental research. It contains a broad ranging view of instrument capability and points to future

developments that will help contribute to higher precision elemental data and faster core analysis. Readers will find a diverse range of research by leading experts that have used micro-XRF core scanners in a wide range of scientific applications. The book includes specific application papers reporting on the use of XRF core scanners in a variety of marine, lacustrine, and pollution studies. In addition, coverage also examines practical aspects of core scanner usage, data optimisation, and data calibration and interpretation.Â In a little over a decade, micro-XRF sediment core scanners have made a substantive contribution to palaeoenvironmental research. Their impact is based on their ability to rapidly, non-destructively, and automatically scan sediment cores. Not only do they rapidly provide important proxy data without damaging samples, but they can obtain environmental data at decadal, annual, and even sub-annual scales. This volume will help both experienced and new users of these non-destructive core scanners take full advantage of one of the most powerful geochemical screening tools in the environmental scientist's toolbox.

Ian Croudace is a geochemist with more than 40 years research experience, holds an academic position at the University of Southampton (Ocean and Earth Science) and is Director of GAU-Radioanalytical.Â He is a specialist in several branches of analytical geochemistry including X-ray fluorescence spectrometry, gamma ray spectrometry and radioanalytical chemistry and has published more than 135 papers in the international geochemical and chemical literature. During his career he has supervised 26 PhD students on a variety of geochemical topics.Â He has also co-developed an industry standard instrument for extracting tritium and C-14 from nuclear and related materials. With NOC colleague Guy Rothwell in 2000 he conceived the fundamental design of what became the prototype Itrax X-ray corescanner.Â He jointly obtained development funding, identified and commissioned the analytical partner (Cox Analytical) and contributed to the realisation of the first Itrax core scanner that emerged in 2003. Guy Rothwell is a marine sedimentologist and Curator of the British Ocean Sediment Core Research Facility (BOSCORF), the UK's national deep-sea core repository, located at the National Oceanography Centre, Southampton. He has participated in over 25 research cruises including two legs of the Ocean Drilling Program. He and colleague Ian Croudace conceived of and secured the funds to realise the prototype Itrax core scanner and contributed to its design. He is author of *Minerals and Mineraloids in Marine Sediments* (Elsevier Applied Science, 1989) and editor of *New Techniques in Sediment Core Analysis* (Geological Society of London Special Publication, 2006).

[Download to continue reading...](#)

Micro-XRF Studies of Sediment Cores: Applications of a non-destructive tool for the environmental

sciences (Developments in Paleoenvironmental Research) Tracking Environmental Change Using Lake Sediments: Volume 4: Zoological Indicators (Developments in Paleoenvironmental Research) Ultrasonic Methods of Non-destructive Testing (Non-Destructive Evaluation Series) Hand Tool Essentials: Refine Your Power Tool Projects with Hand Tool Techniques (Popular Woodworking) Micro Irrigation Management: Technological Advances and Their Applications (Innovations and Challenges in Micro Irrigation) Environmental Oriented Electrochemistry. Studies in Environmental Sciences, Volume 59 Research Techniques for the Health Sciences (5th Edition) (Neutens, Research Techniques for the Health Sciences) Research Techniques for the Health Sciences (Neutens, Research Techniques for the Health Sciences) ECON MICRO (with ECON MICRO Online, 1 term (6 months) Printed Access Card) (New, Engaging Titles from 4LTR Press) Glencoe Keyboarding with Computer Applications, Microsoft Office 2007, Applications 1-150, Student Manual (JOHNSON: GREGG MICRO KEYBOARD) New methods and recent developments of the stereochemistry of ephedrine, pyrrolizidine, granatane and tropane alkaloids, (Recent developments in the chemistry of natural carbon compounds) Advanced Mathematics for Engineers With Applications in Stochastic Processes (Mathematics Research Developments) Erosion and Sediment Control Handbook Earth Surface Processes, Landforms and Sediment Deposits Sediment Provenance: Influences on Compositional Change from Source to Sink Coastal Bottom Boundary Layers and Sediment Transport (Advanced Series on Ocean Engineering (Paperback)) Impounded Rivers: Perspectives for Ecological Management (Environmental Monographs and Symposia: A Series in Environmental Sciences) The Two-Mile Time Machine: Ice Cores, Abrupt Climate Change, and Our Future Ice Core Evidence - Dispelling Arguments Against Immanuel Velikovsky's Theories Based On Greenland Ice Cores Management of Ageing in Graphite Reactor Cores: RSC (Special Publications)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)