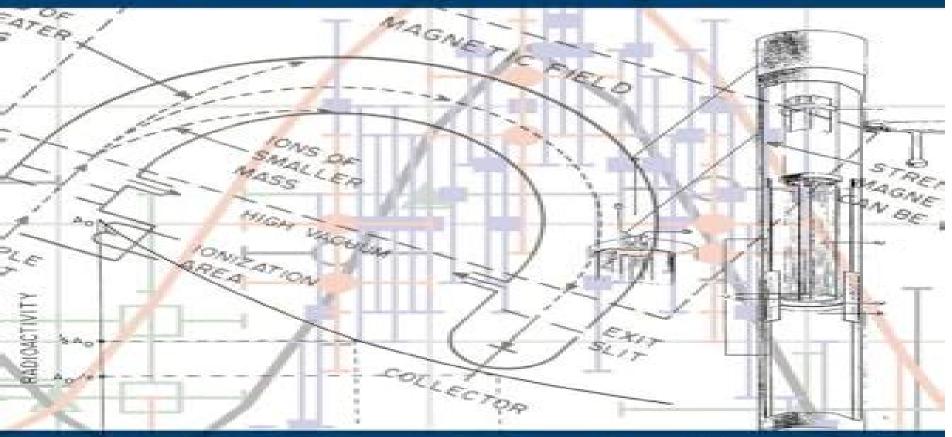
Second Edition

# RADIOCARBON DATING

An Archaeological Perspective



R. E. Taylor and Ofer Bar-Yosef

## Radiocarbon Dating An Archaeological Perspective

R.E. Taylor, Ofer Bar-Yosef

#### Radiocarbon Dating An Archaeological Perspective:

Radiocarbon Dating R.E. Taylor, Ofer Bar-Yosef, 2016-06-03 This volume is a major revision and expansion of Taylor s seminal book Radiocarbon Dating An Archaeological Perspective It covers the major advances and accomplishments of the 14C method in archaeology and analyzes factors that affect the accuracy and precision of 14C based age estimates In addition to reviewing the basic principles of the method it examines 14C dating anomalies and means to resolve them and considers the critical application of 14C data as a dating isotope with special emphasis on issues in Old and New World archaeology and late Quaternary paleoanthropology This volume again a benchmark for 14C dating critically reflects on the method and data that underpins in so many cases the validity of the chronologies used to understand the prehistoric archaeological record Radiocarbon Dating, Second Edition R.E. Taylor, Ofer Bar-Yosef, 2014-11-01 This volume is a major revision and expansion of Taylor's seminal book Radiocarbon Dating An Archaeological Perspective It covers the major advances and accomplishments of the 14C method in archaeology and analyzes factors that affect the accuracy and precision of 14C based age estimates In addition to reviewing the basic principles of the method it examines 14C dating anomalies and means to resolve them and considers the critical application of 14C data as a dating isotope with special emphasis on issues in Old and New World archaeology and late Quaternary paleoanthropology This volume again a benchmark for 14C dating critically reflects on the method and data that underpins in so many cases the validity of the chronologies used to understand the prehistoric archaeological record Radiocarbon Dating R Taylor, 2012-12-02 Radiocarbon Dating An Archaeological Perspective provides a review of some of the major advances and accomplishments of the 14C method from an archaeological perspective The text also provides an introduction to some of the problems and issues involved in the use of 14C data in archaeological studies The book covers topics in radiocarbon dating including the elements of the radiocarbon method definition of major anomalies and the different effects of the 14C method and sample sample pretreatment and measurement techniques The evaluation of radiocarbon data and the historical development of radiocarbon dating as a method that aids in archaeological studies are also discussed The text is recommended for archaeologists who want to know more about the theories and principles behind radiocarbon dating its techniques and its application in their field. The book will also be good for physicists who want to work with archaeologists and apply their knowledge in radiocarbon dating **Radiation in Art** and Archeometry D.C. Creagh, D.A. Bradley, 2000-06-14 inca publications misc creaghcov htm About the cover This book contains twenty chapters covering a wide range of research in the fields of scientific conservation of art and archaeometry The common thread is the use of radiation in these analyses The term radiation is used in the widest possible sense The book encompasses the use of electromagnetic radiation in its microwave infrared visible ultraviolet x ray and ray forms and the use of particulate forms such as electrons neutrons and charged particles for which the Planck's Law relation applies In many cases there is an interplay between the two forms for example proton induced x ray emission PIXE secondary ion mass

spectrometry SIMS As far as possible the chapters have been arranged in order of ascending particle energy Thus it commences with the use of microwaves and finishes with the use of rays The authors were chosen on the basis of their expertise as practitioners of their particular field of study This means that for example the mature fields of study such as the IR and UV study of paintings have been written by senior researchers whereas for the emerging fields of synchrotron and neutron techniques the chapters have been written by talented researchers at the commencement of their careers

Chronometric Dating in Archaeology R.E. Taylor, Martin J. Aitken, 2013-06-29 Since World War II there has been tremendous success in the development of new methods for dating artifacts the so called radiocarbon revolution was only the first such discovery The increasing accuracy of the various new techniques has brought about major changes in archaeological research strategies This important new text compiles the work of some of today s most innovative archaeologists who summarize progress in their respective techniques over the last 30 years with an emphasis on developments of the last five and the status of current research **Radiocarbon and Climate Change** Edward A.G. Schuur, Ellen R.M. Druffel, Susan E. Trumbore, 2016-05-17 This book is a useful guide for researchers in ecology and earth science interested in the use of accelerator mass spectrometry technology. The development of research in radiocarbon measurements offers an opportunity to address the human impact on global carbon cycling and climate change Presenting radiocarbon theory history applications and analytical techniques in one volume builds a broad outline of the field of radiocarbon and its emergent role in defining changes in the global carbon cycle and links to climate change Each chapter presents both classic and cutting edge studies from different disciplines involving radiocarbon and carbon cycling The book also includes a chapter on the history and discovery of radiocarbon and advances in radiocarbon measurement techniques and radiocarbon theory Understanding human alteration of the global carbon cycle and the link between atmospheric carbon dioxide levels and climate remains one of the foremost environmental problems at the interface of ecology and earth system science Many people are familiar with the terms global warming and climate change but fewer are able to articulate the science that support these hypotheses This book addresses general questions such as what is the link between the carbon cycle and climate change what is the current evidence for the fate of carbon dioxide added by human activities to the atmosphere and what has caused past changes in atmospheric carbon dioxide How can the radiocarbon and stable isotopes of carbon combined with other tools be used for quantifying the human impact on the global carbon cycle

**Archaeological Research** Peter Peregrine,2016-12 This updated edition of Archaeological Research introduces the basic methods of archaeological research including data collection analysis interpretation as well as a consideration of the state of archaeology today New to the Second Edition is updated information on geographic information systems and remote sensing strategies and a greatly expanded discussion of practices in cultural resource management archaeology This popular concise textbook explores various research methods analytical techniques legal and ethical issues facing archaeologists

includes discussions of the archaeological process and record sampling and research design survey and excavation methods and strategies recordkeeping analysis archaeological dating presenting results and research opportunities is an excellent text for undergraduate students in basic archaeology courses field methods courses and field schools **Encyclopedia of Paleoclimatology and Ancient Environments** Vivien Gornitz,2008-10-31 One of Springer's Major Reference Works this book gives the reader a truly global perspective It is the first major reference work in its field Paleoclimate topics covered in the encyclopedia give the reader the capability to place the observations of recent global warming in the context of longer term natural climate fluctuations Significant elements of the encyclopedia include recent developments in paleoclimate modeling paleo ocean circulation as well as the influence of geological processes and biological feedbacks on global climate change The encyclopedia gives the reader an entry point into the literature on these and many other groundbreaking topics

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 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 QG G 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 Companion to Rock Art Jo McDonald, Peter Veth, 2012-09-04 This unique guide provides an artistic and archaeological journey deep into human history exploring the petroglyphic and pictographic forms of rock art produced by the earliest humans to contemporary peoples around the world Summarizes the diversity of views on ancient rock art from leading international scholars Includes new discoveries and research illustrated with over 160 images including 30 color plates from major rock art sites around the world Examines key work of noted authorities e q Lewis Williams Conkey Whitley and Clottes and outlines new directions for rock art research Is broadly international in scope identifying rock art from North and South America Australia the Pacific Africa India Siberia and Europe Represents new approaches in the archaeological study of rock art exploring issues that include gender shamanism landscape identity indigeneity heritage and tourism as well as technological and methodological advances in rock art analyses

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