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*Journal Of  
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**Journal of Archaeological Science**

Routledge

Human Remains - Another Dimension:

The Application of 3D Imaging in the Funerary Context brings together scattered literature on the topic, assimilating disparate pieces that relate to the novel use of non-invasive three-dimensional imaging techniques in the forensic context. All chapters are written by specialists in the field who use these types of imaging techniques within their research, bringing an engaging and comprehensive view that demonstrates the current use of 3D non-invasive imaging techniques using case studies. In addition, the advantages for using such methods, their current limitations, and possible solutions are also reviewed. *Forensic Anthropology* Oxbow Books  
This book provides a state-of-the art

overview of satellite archaeology and it is an invaluable volume for archaeologists, scientists, and managers interested in using satellite Earth Observation (EO) to improve the traditional approach for archaeological investigation, protection and management of Cultural Heritage. The recent increasing development of EO techniques and the tremendous advances in Information and Communication Technologies (ICT) have resulted primarily in Cultural Heritage applications. The book focuses on new challenging prospects for the use of EO in archaeology not only for probing the subsurface to unveil sites and artifacts, but also for the management and valorization as well as for the monitoring and preservation of cultural resources.

The book provides a first-class understanding of this revolutionary scenario which was unthinkable several years ago. The book offers: (i) an excellent collection of outstanding articles focusing on satellite data processing, analysis and interpretation for archaeological applications, (ii) impressive case studies, (iii) striking examples of the high potential of the integration of multi-temporal, multi-scale, multi-sensors techniques. Each chapter is composed as an authoritative contribution to help the reader grasp the value of its content. The authors are renowned experts from the international scientific community. Audience: This book will be of interest to scientists in remote sensing applied to archeology, geoarcheology, paleo-environment,

paleo-climate and cultural heritage. *Research Methods in Human Skeletal Biology* Psychology Press  
Commingled and Disarticulated Human Remains: Working Toward Improved Theory, Method, and Data brings together research that provides innovative methodologies for the analysis of commingled human remains. It has temporal and spatial breadth, with case studies coming from pre-state to historic periods, as well as from both the New and Old World. Highlights of this volume include: standardizes methods and presents best practices in the field using a case study approach demonstrates how data gathered from commingled human remains can be incorporated into the overall interpretation of a site explores best way

to formulate population size, using commingled remains. Field archaeologists, bioarchaeologists, academic anthropologists, forensic anthropologists, zoo archaeologists, and students of anthropology and archaeology will find this to be an invaluable resource.

*The Analysis of Burned Human Remains*  
Cambridge University Press

The 23 papers presented here are the product of the interdisciplinary exchange of ideas and approaches to the study of kitchen pottery between archaeologists, material scientists, historians and ethnoarchaeologists. They aim to set a vital but long-neglected category of evidence in its wider social, political and economic contexts. Structured around main themes concerning technical

aspects of pottery production; cooking as socioeconomic practice; and changing tastes, culinary identities and cross-cultural encounters, a range of social economic and technological models are discussed on the basis of insights gained from the study of kitchen pottery production, use and evolution. Much discussion and work in the last decade has focussed on technical and social aspects of coarse ware and in particular kitchen ware. The chapters in this volume contribute to this debate, moving kitchen pottery beyond the Binfordian 'technomic' category and embracing a wider view, linking processualism, ceramic-ecology, behavioral schools, and ethnoarchaeology to research on historical developments and cultural

transformations covering a broad geographical area of the Mediterranean region and spanning a long chronological sequence.

**Case Bastione: a prehistoric settlement in the Erei uplands (central Sicily)** Academic Press

“An excellent volume with mature, sophisticated, comprehensive research by leaders in the fields of archaeology, zooarchaeology, and paleoarchaeology that will be useful to scientists of many interests.”—David Steadman, author of *Extinction and Biogeography of Tropical Pacific Birds* “This volume will make a significant contribution to our understanding of ancient human impacts on marine ecosystems, which will be of interest to all researchers who are concerned about the environment. The

editors and contributors are commended for their efforts on this significant research topic.”—Steven R. James, coeditor of *The Archaeology of Global Change: The Impact of Humans on Their Environment*

**Integrating Zooarchaeology**

Cambridge University Press

Airborne Laser Scanning (ALS), or lidar, is an enormously important innovation for data collection and interpretation in archaeology. The application of archaeological 3D data deriving from sources including ALS, close-range photogrammetry and terrestrial and photogrammetric scanners has grown exponentially over the last decade. Such data present numerous possibilities and challenges, from ensuring that applications remain archaeologically

relevant, to developing practices that integrate the manipulation and interrogation of complex digital datasets with the skills of archaeological observation and interpretation. This volume addresses the implications of multi-scaled topographic data for contemporary archaeological practice in a rapidly developing field, drawing on examples of ongoing projects and reflections on best practice. Twenty papers from across Europe explore the implications of these digital 3D datasets for the recording and interpretation of archaeological topography, whether at the landscape, site or artifact scale. The papers illustrate the variety of ways in which we engage with archaeological topography through 3D data, from discussions of its role in landscape

archaeology, to issues of context and integration, and to the methodological challenges of processing, visualization and manipulation. Critical reflection on developing practice and implications for cultural resource management and research contextualize the case studies and applications, illustrating the diverse and evolving roles played by multi-scalar topographic data in contemporary archaeology.

*Microarchaeology* Academic Press  
Archaeology – the study of human cultures through the analysis and interpretation of artefacts and material remains – continues to captivate and engage people on a local and global level. Internationally celebrated heritage sites such as the pyramids—both Egyptian and Mayan—Lascaux caves,

and the statues of Easter Island provide insights into our ancestors and their actions and motivation. But there is much more to archaeology than famous sites. Ask any archaeologist about their job and they will touch on archaeological theory, chemistry, geology, history, classical studies, museum studies, ethical practice, and survey methods, along with the analysis and interpretation of artefacts and sites. Archaeology is a much broader subject than its public image and branches into many other fields in the social and physical sciences. This multi-volume work provides a comprehensive and systematic coverage of archaeology that is unprecedented, not only in terms of the use of multi-media, but also in terms of content. It encompasses the breadth

of the subject along with key aspects that are tapped from other disciplines. It includes all time periods and regions of the world and all stages of human development. Mostly importantly, this encyclopedia includes the knowledge of leading scholars from around the world. The entries in this encyclopedia range from succinct summaries of specific sites and the scientific aspects of archaeological enquiry to detailed discussions of archaeological concepts, theories and methods, and from investigations into the social, ethical and political dimensions of archaeological practice to biographies of leading archaeologists from throughout the world. The different forms of archaeology are explored, along with the techniques used for each and the

challenges, concerns and issues that face archaeologists today. The Encyclopedia of Global Archaeology has two outstanding innovations. The first is that scholars were able to submit entries in their own language. Over 300,000 words have been translated from French, Spanish, Portuguese, German, Italian, Japanese, Turkish and Russian. Many of these entries are by scholars who are publishing in English for the first time. This compendium is both a print reference and an online reference work. The encyclopedia's second major innovation is that it harnesses the capabilities of an online environment, enhancing both the presentation and dissemination of information. Most particularly, the continuous updating allowed by an online environment should

ensure that the Encyclopedia of Global Archaeology is a definitive reference work for archaeology and archaeologists. In the Eastern Fluted Point Tradition Academic Press  
To one nineteenth-century scholar, their fierce, ridged brows were evidence of a "moral darkness" that set them irrevocably apart from human beings. Some commentators accused them of cannibalism. Yet by the 1970s the Neandertals were being hailed as "the first flower people" and praised for their apparent compassion and religious piety. The story of how scientists could come to such divergent conclusions about a set of bones unearthed in Germany in 1856 unfolds with irresistible detail in this enthralling book. Even as The Neandertals assesses the identity,

kinship, and character of our possible ancestors, it casts a wry eye on the modern Homo sapiens who have embraced or disavowed them and illuminates the peculiar way in which even science is shaped by human needs and biases.

Commingled and Disarticulated Human Remains Academic Press

Palaeopathology of Children: Identification of Pathological Conditions in the Human Skeletal Remains of Non-Adults provides archaeological examples of pathological child remains with varying degrees of disease manifestation, and where possible, presents illustrations of individually affected bones to help with identification. The structure and inclusion of photographs and summary

diagnostic tables make this suitable for use as a textbook. Each chapter includes a table of international archaeological cases collated by the author from published and unpublished literature. Child skeletal remains come in a variety of different sizes, with bones appearing and fusing at different times during growth. Identifying pathology in such unfamiliar bones can be a challenge, and we often rely on photographs of clinical radiographs or intact anatomical specimens to try and interpret the lesions we see in archaeological material. These are usually the most extreme examples of the disease, and do not account for the wide degree of variation we may see in skeletal remains. - Provides a comprehensive review of the types of pathological

conditions identified in non-adult skeletal remains - Contains chapters that tackle a particular disease classification - Features for each condition are described and illustrated to aid in the identification

*Homol'ovi* John Wiley & Sons

This title provides a survey of the scientific techniques which are used in archaeology to analyse ancient human environments and which give a fascinating insight into the context of prehistory.

**Human Remains: Another Dimension**

Springer

This volume provides a clear and up-to-date description of how the materials were exploited, modified and manufactured in prehistoric and historic periods.

**The Atlantic Walrus** Elsevier

Conditioned by local ways of knowing and doing, Great Zimbabwe develops a new interpretation of the famous World Heritage site of Great Zimbabwe. It combines archaeological knowledge, including recent material from the author's excavations, with native concepts and philosophies. Working from a large data set has made it possible, for the first time, to develop an archaeology of Great Zimbabwe that is informed by finds and observations from the entire site and wider landscape. In so doing, the book strongly contributes towards decolonising African and world archaeology. Written in an accessible manner, the book is aimed at undergraduate students, graduate students, and practicing archaeologists

both in Africa and across the globe. The book will also make contributions to the broader field such as African Studies, African History, and World Archaeology through its emphasis on developing synergies between local ways of knowing and the archaeology.

### **The Science of Crime Scenes**

Academic Press

The Bioarchaeology of Metabolic Bone Disease provides a comprehensive and invaluable source of information on this important group of diseases. It is an essential guide for those engaged in either basic recording or in-depth research on human remains from archaeological sites. The range of potential tools for investigating metabolic diseases of bone are far greater than for many other conditions,

and building on clinical investigations, this book will consider gross, surface features visible using microscopic examination, histological and radiological features of bone, that can be used to help investigate metabolic bone diseases. - Clear photographs and line drawings illustrate gross, histological and radiological features associated with each of the conditions - Covers a range of issues pertinent to the study of metabolic bone disease in archaeological skeletal material, including the problems that frequent co-existence of these conditions in individuals living in the past raises, the preservation of human bone and the impact this has on the ability to suggest a diagnosis of a condition - Includes a range of conditions that can lead to osteopenia and osteoporosis,

including previous investigations of these conditions in archaeological bone  
**Osteobiographies** Univ of California Press

Forensic anthropologists are confronted with ethical issues as part of their education, research, teaching, professional development, and casework. Despite the many ethical challenges that may impact forensic anthropologists, discourse and training in ethics are limited. The goal for Ethics and Professionalism in Forensic Anthropology is to outline the current state of ethics within the field and to start a discussion about the ethics, professionalism, and legal concerns associated with the practice of forensic anthropology. This volume addresses: -  
 The need for professional ethics -

Current ethical guidelines applicable to forensic anthropologists and their means of enforcement - Different approaches to professionalism within the context of forensic anthropology, including issues of scientific integrity, qualifications, accreditation and quality assurance - The use of human subjects and human remains in forensic anthropology research - Ethical and legal issues surrounding forensic anthropological casework, including: analytical notes, case reports, peer review, incidental findings, and testimony - Harassment and discrimination in science, anthropology, and forensic anthropology  
Ethnobiology Acls History E-Book Project  
 Animals have played a fundamental role in shaping human history, and the study of their remains from archaeological

sites - zooarchaeology - has gradually been emerging as a powerful discipline and crucible for forging an understanding of our past. This Handbook offers a cutting-edge, global compendium of zooarchaeology that seeks to provide a holistic view of the role played by animals in past human cultures. Case studies from across five continents explore a huge range of human-animal interactions from an array of geographical, historical, and cultural contexts, and also illuminate the many approaches and methods adopted by different schools and traditions in studying these relationships.

*Archaeological Soil and Sediment Micromorphology* Oxford University Press

The single comprehensive treatment of the field, from the leading members of

the Society of Ethnobiology The field of ethnobiology—the study of relationships between particular ethnic groups and their native plants and animals—has grown very rapidly in recent years, spawning numerous subfields. Ethnobiological research has produced a wide range of medicines, natural products, and new crops, as well as striking insights into human cognition, language, and environmental management behavior from prehistory to the present. This is the single authoritative source on ethnobiology, covering all aspects of the field as it is currently defined. Featuring contributions from experienced scholars and sanctioned by the Society of Ethnobiology, this concise, readable volume provides extensive coverage of

ethical issues and practices as well as archaeological, ethnological, and linguistic approaches. Emphasizing basic principles and methodology, this unique textbook offers a balanced treatment of all the major subfields within ethnobiology, allowing students to begin guided research in any related area—from archaeoethnozoology to ethnomycology to agroecology. Each chapter includes a basic introduction to each topic, is written by a leading specialist in the specific area addressed, and comes with a full bibliography citing major works in the area. All chapters cover recent research, and many are new in approach; most chapters present unpublished or very recently published new research. Featured are clear, distinctive treatments of areas such as

ethnozoology, linguistic ethnobiology, traditional education, ethnoecology, and indigenous perspectives. Methodology and ethical action are also covered up to current practice. Ethnobiology is a specialized textbook for advanced undergraduates and graduate students; it is suitable for advanced-level ethnobotany, ethnobiology, cultural and political ecology, and archaeologically related courses. Research institutes will also find this work valuable, as will any reader with an interest in ethnobiological fields.

**The Bioarchaeology of Metabolic Bone Disease** John Wiley & Sons

In the forensic context it is quite common for nonhuman bones to be confused with human remains and end up in the medical examiner or coroner

system. It is also quite common for skeletal remains (both human and nonhuman) to be discovered in archaeological contexts. While the difference between human and nonhuman bones is often very striking, it can also be quite subtle. Fragmentation only compounds the problem. The ability to differentiate between human and nonhuman bones is dependent on the training of the analyst and the available reference and/or comparative material. Comparative Osteology is a photographic atlas of common North American animal bones designed for use as a laboratory and field guide by the forensic scientist or archaeologist. The intent of the guide is not to be inclusive of all animals, but rather to present some of the most common species which

also have the highest likelihood of being potentially confused with human remains. - An affordably priced, compact laboratory/field manual, comparing human and nonhuman bones - Contains almost 600 high-quality black and white images and diagrams, including inch and centimeter scales with each photograph - Written by the foremost forensic scientists with decades of experience in the laboratory and as expert witnesses - An additional Companion Web site hosts images from the volume the reader can magnify and zoom into to see specific landmarks and features on bones  
<http://booksite.academicpress.com/9780123884374>

**Environmental Archaeology** Princeton University Press  
An accessible and wide-ranging

introduction to the exciting and expanding field of archaeological science, for students, professionals and academics.

Comparative Osteology Pergamon

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.

*Journal of Archaeological Science*

Academic Press

Research Methods in Human Skeletal Biology serves as the one location readers can go to not only learn how to conduct research in general, but how research is specifically conducted within human skeletal biology. It outlines the current types of research being conducted within each sub-specialty of skeletal biology, and gives the reader the tools to set up a research project in skeletal biology. It also suggests several ideas for potential projects. Each chapter has an inclusive bibliography, which can serve as a good jumpstart for project references. - Provides a step-by-step guide to conducting research in human skeletal biology - Covers diverse topics (sexing, aging, stature and ancestry

estimation) and new technologies  
(histology, medical imaging, and

geometric morphometrics) - Excellent  
accompaniment to existing forensic  
anthropology or osteology works