Ecological and Environmental Science: A Research Perspective

Environmental Archaeology Approaches Techniques Applications

Foraminifera and their Applications
Geoarchaeology
Molluscs in Archaeology
The Evolution of Neolithic and Bronze Age Landscapes
Snails and Molluscs in Archaeology
Ancient Plants and People
Environmental Archaeology
Zooarchaeology in Practice
Interpreting the English Village
Case Studies in Environmental Archaeology
Encyclopedia of Environmental Change
Environmental Archaeology Method and Theory in Paleoethnobotany
Archaeology in Ireland
Environmental Archaeology
Connecting Continents
The Routledge Handbook of Sensory Archaeology
The Oxford Handbook of Zooarchaeology
Archaeology of African Plant Use
Applications of Palaeontology
Environmental Archaeology
Handbook of Archaeological Theories
Local, intensive and diverse?
Archaeological Science
The Archaeology of Medicine in the Greco-Roman World
The Oxford Handbook of Wetland Archaeology
Computer Applications and Quantitative Methods in Archaeology
Environment and Archaeology
Handbook of Landscape Archaeology
Wetland Archaeology and Beyond
Excavations at Paithan, Maharashtra
Field Archaeology
Archaeology After Interpretation
Archaeology of Entanglement
Environmental Archaeology: Meaning and Purpose

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Wetland Archaeology and Beyond offers an appreciative study of the people, and their artefacts, who occupied a large variety of
worldwide wetland archaeological sites. The volume also includes a comprehensive explanation of the processes involved in archaeological practice and theory.

Environmental Archaeology Accessibly written by a team of international authors, the Encyclopedia of Environmental Change provides a gateway to the complex facts, concepts, techniques, methodology and philosophy of environmental change. This three-volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field. The encyclopedia includes all of the following aspects of environmental change: Diverse evidence of environmental change, including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide-ranging local, regional and global impacts from the polar regions to the tropics Responses of geo-ecosystems and human-environmental systems in the face of past, present and future environmental change Approaches, methodologies and techniques used for reconstructing, dating, monitoring, modelling, projecting and predicting change Social, economic and political dimensions of environmental issues, environmental conservation and management and environmental policy Over 4,000 entries explore the following key themes and more: Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one-line definitions to short essays, making this an invaluable companion for any student of physical geography, environmental geography or environmental sciences.
Foraminifera and their Applications

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. The Oxford Handbook of Zooarchaeology offers a cutting-edge compendium of zooarchaeology the world over that transcends environmental, economic, and social approaches, seeking instead to provide a holistic view of the roles played by animals in past human cultures. Incisive chapters written by leading scholars in the field incorporate case studies from across five continents, from Iceland to New Zealand and from Japan to Egypt and Ecuador, providing a sense of the dynamism of the discipline, the many approaches and methods adopted by different schools and traditions, and an idea of the huge range of interactions that have occurred between people and animals throughout the world and its history. Adaptations of human-animal relationships in environments as varied as the Arctic, temperate forests, deserts, the tropics, and the sea are discussed, while studies of hunter-gatherers, farmers, herders, fishermen, and even traders and urban dwellers highlight the importance that animals have had in all forms of human societies. With an introduction that clearly contextualizes the current practice of zooarchaeology in relation to both its history and the challenges and opportunities that can be expected for the future, and a methodological glossary illuminating the way in which zooarchaeologists approach the study of their material, this Handbook will be invaluable not only for specialists in the field, but for anybody who has an interest in our past and the role that animals have played in forging it.

Geoarchaeology

Over the past three decades, “landscape” has become an umbrella term to describe many different strands of archaeology. From the processualist study of settlement patterns to the phenomenologist’s experience of the natural world, from
human impact on past environments to the environment’s impact on human thought, action, and interaction, the term has been used. In this volume, for the first time, over 80 archaeologists from three continents attempt a comprehensive definition of the ideas and practices of landscape archaeology, covering the theoretical and the practical, the research and conservation, and encasing the term in a global framework. As a basic reference volume for landscape archaeology, this volume will be the benchmark for decades to come. All royalties on this Handbook are donated to the World Archaeological Congress.

Molluscs in Archaeology An original and approachable account of how archaeology can tell the story of the English village. Shapwick lies in the middle of Somerset, next to the important monastic centre of Glastonbury: the abbey owned the manor for 800 years from the 8th to the 16th century and its abbots and officials had a great influence on the lives of the peasants who lived there. It is possible that abbot Dunstan, one of the great reformers of tenth century monasticism directed the planning of the village. The Shapwick Project examined the development and history of an English parish and village over a ten thousand-year period. This was a truly multi-disciplinary project. Not only were a battery of archaeological and historical techniques explored - such as field walking, test-pitting, archaeological excavation, aerial reconnaissance, documentary research and cartographic analysis - but numerous other techniques such as building analysis, dendrochronological dating and soil analysis were undertaken on a large scale. The result is a fascinating study about how the community lived and prospered in Shapwick. In addition we learn how a group of enthusiastic and dedicated scholars unravelled this story. As such there is much here to inspire and enthuse others who might want to embark on a landscape study of a parish or village area. Seven of the ten chapters begin with a fictional vignette to bring the story of the
The Evolution of Neolithic and Bronze Age Landscapes

One of the most significant developments in archaeology in recent years is the emergence of its environmental branch: the study of humans’ interactions with their natural surroundings over long periods and of organic remains instead of the artifacts and household items generally associated with sites. With the current attention paid to human responsibility for environmental change, this innovative field is recognized by scientists, conservation and heritage managers and policymakers worldwide. In this context comes Environmental Archaeology by Elizabeth Reitz and Myra Shackley, updating the seminal 1981 text Environmental Archaeology by Myra Shackley. Rigorously detailed yet concise and accessible, this volume surveys the complex and technical field of environmental archaeology for researchers interested in the causes, consequences and potential future impact of environmental change and archaeology. Its coverage acknowledges the multiple disciplines involved in the field, expanding the possibilities for using environmental data from archaeological sites in enriching related disciplines and improving communication among them. Introductory chapters explain the processes involved in the formation of sites, introduce research designs and field methods and walk the reader through biological classifications before focusing on the various levels of biotic and abiotic materials found at sites, including: Sediments and soils. Viruses, bacteria, archaea, protists and fungi. Bryophytes and vascular plants. Wood, charcoal, stems, leaves and roots. Spores, pollen and other microbotanical remains. Arthropods, molluscs, echinoderms and vertebrates. Stable isotopes, elements and biomolecules. The updated Environmental Archaeology is a major addition to the resource library of
archaeologists, environmentalists, historians, researchers, policymakers—anyone involved in studying, managing or preserving historical sites. The updated Environmental Archaeology is a major addition to the resource library of archaeologists, environmentalists, historians, researchers, policymakers—anyone involved in studying, managing, or preserving historical sites.

Snails The remains of snails in ancient soils and sediments are one of the most important biological indicators of past landscapes, and have attracted study for well over a century. In spite of this, the only English-language textbook was published in 1972 and is long since out of print. Snails provides a comprehensive, up to date reference text on the use of snails as indicators of past environments in Quaternary landscape studies and archaeology. It considers the use of terrestrial and freshwater sub-fossil snail remains as indicators of Late Quaternary (c. last 15,000 years) environmental change and as indicators of past environments and human impacts on the landscape. The volume also demonstrates how an understanding of modern snail ecology can be used to enhance our interpretation of landscape archaeology, and provides a detailed contextual approach to the main types of deposits in which snail remains are found. Davies also puts forward an agenda for future research on the use of snails in archaeological and environmental reconstruction.

Molluscs in Archaeology The subject of 'Molluscs in Archaeology' has not been dealt with collectively for several decades. This new volume in Oxbow's 'Studying Scientific Archaeology' series addresses many aspects of molluscs in archaeology. It will give the reader an overview of the whole topic; methods of analysis and approaches to interpretation. It aims to be a broad based text book giving readers an insight of how to apply analysis to different present and past landscapes and how to
Ancient Plants and People Paleoethnobotany, the study of archaeological plant remains, is poised at the intersection of the study of the past and concerns of the present, including agricultural decision making, biodiversity, and global environmental change, and has much to offer to archaeology, anthropology, and the interdisciplinary study of human relationships with the natural world. Method and Theory in Paleoethnobotany demonstrates those connections and highlights the increasing relevance of the study of past human-plant interactions for understanding the present and future. A diverse and highly regarded group of scholars reference a broad array of literature from around the world as they cover their areas of expertise in the practice and theory of paleoethnobotany—starch grain analysis, stable isotope analysis, ancient DNA, digital data management, and ecological and postprocessual theory. The only comprehensive edited volume focusing on method and theory to appear in the last twenty-five years, Method and Theory in Paleoethnobotany addresses the new areas of inquiry that have become central to contemporary archaeological debates, as well as the current state of theoretical, methodological, and empirical work in paleoethnobotany.

Environmental Archaeology Edited by two pioneers in the field of sensory archaeology, this Handbook comprises a key point of reference for the ever-expanding field of sensory archaeology: one that surpasses previous books in this field, both in scope and critical intent. This Handbook provides an extensive set of specially commissioned chapters, each of which summarizes and critically reflects on progress made in this dynamic field during the early years of the twenty-first century. The authors identify and discuss the key current concepts and debates of sensory archaeology, providing overviews and commentaries on its
methods and its place in interdisciplinary sensual culture studies. Through a set of thematic studies, they explore diverse sensorial practices, contexts and materials, and offer a selection of archaeological case-studies from different parts of the world. In the light of this, the research methods now being brought into the service of sensory archaeology are re-examined. Of interest to scholars, students and others with an interest in archaeology around the world, this book will be invaluable to archaeologists and is also of relevance to scholars working in disciplines contributing to sensory studies: aesthetics, anthropology, architecture, art history, communication studies, history (including history of science), geography, literary and cultural studies, material culture studies, museology, philosophy, psychology, and sociology.

Zooarchaeology in Practice Mangroves and rice, six-row brittle barley and einkorn wheat. Ancient crops for prehistoric people. What do they have in common? All tell us about the lives and cultures of long ago, as humans cultivated or collected these plants for food. Exploring these and other important plants used for millennia by humans, Ancient Plants and People presents a wide-angle view of the current state of archaeobotanical research, methods, and theories. Food has both a public and a private role, and it permeates the life of all people in a society. Food choice, production, and distribution probably represent the most complex indicators of social life, and thus a study of foods consumed by ancient peoples reveals many clues about their lifestyles. But in addition to yielding information about food production, distribution, preparation, and consumption, plant remains recovered from archaeological sites offer precious insights on past landscapes, human adaptation to climate change, and the relationship between human groups and their environment. Revealing important aspects of past human societies, these plant-driven insights widen the spectrum of information available to
archaeologists as we seek to understand our history as a biological and cultural species. Often answers raise more questions. As a result, archaeobotanists are constantly pushed to reflect on the methodological and theoretical aspects of their discipline. The contributors discuss timely methodological issues and engage in debates on a wide range of topics from plant utilization by hunter-gatherers and agriculturalists, to uses of ancient DNA. Ancient Plants and People provides a global perspective on archaeobotanical research, particularly on the sophisticated interplay between the use of plants and their social or environmental context.

Interpreting the English Village The first major synthesis of African archaeobotany in decades, this book focuses on Paleolithic archaeobotany and the relationship between agriculture and social complexity. It explores the effects that plant life has had on humans as they evolved from primates through the complex societies of Africa, including Egypt, the Buganda Kingdom, southern African polities, and other regions. With over 30 contributing scholars from 12 countries and extensive illustrations, this volume is an essential addition to our knowledge of humanity’s relationship with plants.

Case Studies in Environmental Archaeology

Encyclopedia of Environmental Change 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.

Environmental Archaeology At the heart of this book is a comparative study of the stone rows of Dartmoor and northern Scotland, a rare, putatively Bronze Age megalithic typology that has mystified archaeologists for over a century.
Method and Theory in Paleoethnobotany Zooarchaeology in Practice unites depth of treatment with broad topical coverage to advance methodological discussion and development in archaeofaunal analysis. Through case studies, historical accounts, and technical reviews authored by leading figures in the field, the volume examines how zooarchaeological data and interpretation are shaped by its methods of practice and explores the impact of these effects at varying levels of investigation. Contributing authors draw on geographically and taxonomically diverse datasets, providing instructive approaches to problems in traditional and emerging areas of methodological concern. Readers, from specialists to students, will gain an extensive, sophisticated look at important disciplinary issues that are sure to provoke critical reflection on the nature and importance of sound methodology. With implications for how archaeologists reconstruct human behavior and paleoecology, and broader relevance to fields such as paleontology and conservation biology, Zooarchaeology in Practice makes an enduring contribution to the methodological advancement of the discipline.

Archaeology In recent decades, the vast and culturally diverse Indian Ocean region has increasingly attracted the attention of anthropologists, historians, political scientists, sociologists, and other researchers. Largely missing from this growing body of scholarship, however, are significant contributions by archaeologists and consciously interdisciplinary approaches to studying the region’s past and present. Connecting Continents addresses two important issues: how best to promote collaborative research on the Indian Ocean world, and how to shape the research agenda for a region that has only recently begun to attract serious interest from historical archaeologists. The archaeologists, historians, and other scholars who have contributed to this volume tackle important topics such as the nature and dynamics of migration, colonization, and cultural
syncretism that are central to understanding the human experience in the Indian Ocean basin. This groundbreaking work also deepens our understanding of topics of increasing scholarly and popular interest, such as the ways in which people construct and understand their heritage and can make use of exciting new technologies like DNA and environmental analysis. Because it adopts such an explicitly comparative approach to the Indian Ocean, Connecting Continents provides a compelling model for multidisciplinary approaches to studying other parts of the globe. Contributors: Richard B. Allen, Edward A. Alpers, Atholl Anderson, Nicole Boivin, Diego Calaon, Aaron Camens, Saša ?aval, Geoffrey Clark, Alison Crowther, Corinne Forest, Simon Haberle, Diana Heise, Mark Horton, Paul Lane, Martin Mhando, and Alistair Patterson.

Environmental Archaeology in Ireland A one-stop practical guide to foraminifera with numerous case studies demonstrating their applications, for graduate students, micropalaeontologists and industry professionals.

Environmental Archaeology This book teaches students and scholars of Greco-Roman medical history how to use and critically assess archaeological materials. Ancient medicine is a subject dominated by textual sources, yet there is a wealth of archaeological remains that can be used to broaden our understanding of medicine in the past. In order to use the information properly, this book explains how to ask questions of an archaeological nature, how to access different types of archaeological materials, and how to overcome problems the researcher might face. It also acts as an introduction to the archaeology of medicine for archaeologists interested in this aspect of their subject. Although the focus is on the Greco-Roman period, the methods and theories explained within the text can be applied to other periods in history. The areas covered include text
as material culture, images, artifacts, spaces of medicine, and science and archaeology.

Environmental Archaeology Geoarchaeology is traditionally concerned with reconstructing the environmental aspects of past societies using the methods of the earth sciences. The field has been steadily enriched by scholars from a diversity of disciplines and much has happened as the importance of global perspectives on environmental change has emerged. Carlos Cordova, provides a fully up-to-date account of geoarchaeology that reflects the important changes that have occurred in the past four decades. Innovative features include: the development of the human-ecological approach and the impact of technology on this approach; how the diversity of disciplines contributes to archaeological questions; frontiers of archaeology in the deep past, particularly the Anthropocene; the geoarchaeology of the contemporary past; the emerging field of ethno-geoarchaeology; the role of geoarchaeology in global environmental crises and climate change.

Connecting Continents This book highlights studies addressing significant anthropological issues in the Americas from the perspective of environmental archaeology. The book uses case studies to resolve questions related to human behavior in the past rather than to demonstrate the application of methods. Each chapter is an original or revised work by an internationally-recognized scientist. This second edition is based on the 1996 book of the same title. The editors have invited back a number of contributors from the first edition to revise and update their chapter. New studies are included in order to cover recent developments in the field or additional pertinent topics.

The Routledge Handbook of Sensory Archaeology This book aims to thoroughly discuss new directions of thinking in the arena of
environmental archaeology and test them by presenting new practical applications. Recent theoretical and epistemological advancement in the field of archaeology calls for a re-definition of the subdiscipline of environmental archaeology and its position within the practise of archaeology. New technological and methodological discoveries in hard sciences and computer applications opened fresh ways for interdisciplinary collaborations thus introducing new branches and specialisations that need now to be accommodated and integrated within the previous status-quo. This edited volume will take the challenge and engage with contemporary international discussions about the role of the discipline within the general framework of archaeology. By drawing upon these debates, the contributors to this volume will rethink what environmental archaeology is and what kind of input the investigation of this kind of materiality has to the reconstruction of human history and sociality.

The Oxford Handbook of Zooarchaeology Despite the fact that the human life of the past cannot be understood without taking into account its ecological relationships, environmental studies are often marginalized in archaeology. This is the first book that, by discussing the meaning and purpose we give to the expression 'environmental archaeology', investigates the reasons for such a problem. The book is written in an accessible manner and is of interest to all students who want to understand the essence of archaeology beyond the boundary of the individual subdisciplines.

Archaeology of African Plant Use An accessible and wide-ranging introduction to the exciting and expanding field of archaeological science, for students, professionals and academics.

Applications of Palaeontology Book Cover -- Title -- Copyright -- Contents -- List of illustrations -- List of tables -- Preface --
Environmental Archaeology The Oxford Handbook of Wetland Archaeology is the most comprehensive survey of world wetland archaeology ever published and sets out and covers the key issues and debates in the theory and practice of wetland archaeology, which has played a crucial role in studies of our past. Due to the high quantity of well-preserved organic materials found in humid environments, the study of wetlands has allowed archaeologists to reconstruct people's everyday lives in great detail. Through concise essays written by over fifty of the world's leading scholars in the field, it describes the scientific and archaeological principles, methodologies, and spectacular results of past and present archaeological investigations of wetland environments.

Handbook of Archaeological Theories This study argues that early farming life may have been more multifaceted than previously thought, and puts forward a reinterpretation of the traditional views on farming, wild plant gathering and social relationships during the Neolithic in the North East of the Iberian Peninsula. The archaeobotanical data from 17 archaeological sites is presented (Sardo Cave; Camp del Colomer; Serra del M as Bonet; La Dou Codella, 120; Cave La Draga; Bòbila Madurell; Carrer Reina Amàlia, 31?33; Prehistoric Mines of Gavà; Can Sadurní Cave; Sant Llorenç Cave; Espina C; Pla del Gardelo; Puig del Collet; CIM "El Camp"; Fosca Cave). For each site, pioneering methods of investigating the origin and the representativeness of the data are applied. Following these evaluations, palaeoeconomic issues are targeted at different
scales, ranging from the context to the regional level. The detailed investigations performed at the site of La Draga particularly stand out, as this is the only Neolithic site with waterlogged conditions of preservation in the Iberian Peninsula. Innovative data on the history of crops like tetraploid naked wheat, two-row barley, naked barley and opium poppy as well as on the role of wild fruits in the economy is revealed, completing an important piece in the puzzle of the investigations concerning the Neolithic in Europe.

Local, intensive and diverse? A new generation of archaeologists has thrown down a challenge to post-processual theory, arguing that characterizing material symbols as arbitrary overlooks the material character and significance of artifacts. This volume showcases the significant departure from previous symbolic approaches that is underway in the discipline. It brings together key scholars advancing a variety of cutting edge approaches, each emphasizing an understanding of artifacts and materials not in terms of symbols but relationally, as a set of associations that compose people’s understanding of the world. Authors draw on a diversity of intellectual sources and case studies, paving a dynamic road ahead for archaeology as a discipline and theoretical approaches to material culture.

Archaeological Science The book “Ecological and Environmental Science: A Research Perspective” is a compilation of author’s original research papers, scientific articles, review articles, popular articles, general articles, and short notes on forest ecology, wetland ecology, plant ecology, bird ecology, and animal ecology. The book is a perfect amalgamation of burgeoning and thrust topics spanning biodiversity, and conservation and management of floral and faunal elements including ecology and biodiversity of phytoplankton, zooplankton, aquatic macrophytes, mangroves, terrestrial plants, animals (butterflies, reptiles, mammals) and birds. It covers ecological and environmental
factors affecting abiotic and biotic components prevailed in forest, desert, grassland and wetland habitats and ecosystems. The present book highlights field studies and laboratory investigations carried out by the author during his research journey of 22 years (1998-2020). It discusses phenology, ethnobotanical, ethnomedicinal and aesthetic values of plants, resource use patterns by local inhabitants, socio-cultural aspects, livelihood dependency, rare and endangered plants, animals and birds, anthropogenic pressures, conservation and management strategies of endemic, exotic, and invasive species, and so on. The book covers unique and promising research topics e.g. hydrochemistry, geochemistry, biomonitoring of heavy metals in aquatic and terrestrial plants, metal remediation, environmental modeling, environmental archaeology, environmental bioindicators, environmental forensics, etc. The author believes that this book is a perfect blend of his research work on two integral branches of biology i.e. ecology and environmental science, which will undoubtedly enrich and enhance the knowledge and awareness of laymen and scientific community world over especially in the field of ecology and biodiversity of plants, animals, and birds, associated with physical, chemical, biological, ecological and environmental factors. The present book would certainly be useful and handy as a ready-reference material for students, academicians, researchers, scientists, ecological and environmental consultants, restoration specialists, practitioners, conservationists, and biodiversity managers at regional, national and global platform.

The Archaeology of Medicine in the Greco-Roman World This book reports on excavations at Paithan in India revealed the development of two early Hindu temples from the 4th century to the 9th: the key formative phase of Hinduism. The temples started as small shrines but were elaborated into formal temples. In relation to these changes, the excavations revealed a sequence of
palaeobotanical and palaeofaunal evidence that give insight into the economic and social changes that took place at that time.

The Oxford Handbook of Wetland Archaeology Environmental archaeology focuses on the ways in which humans have interacted with nature throughout the past. This book discusses what exactly the field is, why it is studied, and what contribution it can make to reconstructing the past. Individual chapters focus on how the field of study developed, its key principles, techniques and approaches, and how environmental archaeologists reach and communicate their interpretations of the evidence.

Computer Applications and Quantitative Methods in Archaeology Since its first publication, Field Archaeology: An Introduction has proved to be a key handbook for all those undertaking introductory courses in archaeology or volunteering on their first excavation. In this revised second edition, key developments in technology, theory and changes in the law are included, bringing it up to date with the most recent fieldwork practices. The dig is the face of archaeology most immediately recognised by the general public, and is often what attracts both students and amateurs to the discipline. Yet there is much more to working in the field than digging alone. Peter Drewett's comprehensive survey explores the process, from the core work of discovery and excavation to the final product, the published archaeological report. The main topics are: How an archaeological site is formed Finding and recording archaeological sites Planning excavations, digging the site and recording the results Post-fieldwork planning, processing and finds analysis Interpreting the evidence Publishing the report Illustrated with 100 photographs and line drawings, and using numerous case studies, this second edition of Field Archaeology ensures it will remain the essential introductory guide for archaeology students and the growing number of enthusiasts for the subject.
Entanglement theory posits that the interrelationship of humans and objects is a delimiting characteristic of human history and culture. This edited volume of original studies by leading archaeological theorists applies this concept to a broad range of topics, including archaeological science, heritage, and theory itself. In the theoretical explications and ten case studies, the editors and contributing authors: -build on the intersections between science, humanities and ecology to provide a more fine-grained, multi-scalar treatment emanating from the long-term perspective that characterizes archaeological research; -bring to light the subtle and unacknowledged paths that configure historical circumstances and bind human intentionality; -examine the constructions of personhood, the rigidity of path dependencies, the unpredictable connections between humans and objects and the intricate paths of past events in varied geographic and historical contexts that channel future actions. This broad focus is inclusive of early complex developments in Asia and Europe, imperial and state strategies in the Andes and Mesoamerica, continuities of postcolonialism in North America, and the unforeseen and complex consequences that derive from archaeological practices. This volume will appeal to archaeologists and their advanced students.

Handbook of Landscape Archaeology Palaeontology, the scientific study of fossils, has developed from a descriptive science to an analytical science used to interpret relationships between earth and life history. This book provides a comprehensive and thematic treatment of applied palaeontology, covering the use of fossils in the ordering of rocks in time and in space, in biostratigraphy, palaeobiology and sequence stratigraphy. Robert Wynn Jones presents a practical workflow for applied palaeontology, including sample acquisition, preparation and analysis, and interpretation and integration. He then presents numerous case studies that demonstrate the applicability and
value of the subject to areas such as petroleum, mineral and coal exploration and exploitation, engineering geology and environmental science. Specialist applications outside of the geosciences (including archaeology, forensic science, medical palynology, entomopalynology and melissopalynology) are also addressed. Abundantly illustrated and referenced, Applications of Palaeontology provides a user-friendly reference for academic researchers and professionals across a range of disciplines and industry settings.

Wetland Archaeology and Beyond Authoritative and essential guide to methods interpreting the ecology of archaeological sites, and their applications.

Excavations at Paithan, Maharashtra The subject of ‘Molluscs in Archaeology’ has not been dealt with collectively for several decades. This new volume in Oxbow’s Studying Scientific Archaeology series addresses many aspects of mollusks in archaeology. It will give the reader an overview of the whole topic; methods of analysis and approaches to interpretation. It aims to be a broad based text book giving readers an insight of how to apply analysis to different present and past landscapes and how to interpret those landscapes. It includes Marine, Freshwater and land snails studies, and examines topics such as diet, economy, climate, environmental and land-use, isotopes and mollusks as artifacts. It aims to provide archaeologists and students with the first port of call giving them a) methods and principles, and b) the potential information mollusks can provide. It concentrates on analysis and interpretation most archaeologists and students can undertake and understand, and to 'review' the 'heavier' science in terms of potential, application and interpretational value.

Field Archaeology This edited volume of 16 papers provides an introduction to the techniques and methodologies, approaches and
potential of environmental archaeology within Ireland. Each of the 16 invited contributions focuses on a particular aspect of environmental archaeology and include such specialist areas as radiocarbon dating, dendrochronology, palaeoentomology, human osteoarchaeology, palynology and geoaechaeology, thereby providing a comprehensive overview of environmental archaeology within an Irish context. The inclusion of pertinent case studies within each chapter will heighten awareness of the profusion of high standard environmental archaeological research that is currently being undertaken on Irish material. The book will provide a key text for students and practitioners of archaeology, archaeological science and palaeoecology.

Archaeology After Interpretation This handbook, a companion to the authoritative Handbook of Archaeological Methods, gathers original, authoritative articles from leading archaeologists on all aspects of the latest thinking about archaeological theory. It is the definitive resource for understanding how to think about archaeology.

Archaeology of Entanglement Includes chapter Early colonization of Australia, discusses potential antecedents from southeastern Asia, late Pleistocene archaeological evidence, gives list of early occupation sites with dates & brief note of artefacts, comments on late Pleistocene environment, man / land relationships (band size, tribal units, linguistic groups, racial categories, economy, technology)

Environmental Archaeology: Meaning and Purpose Environmental Archaeology: Theoretical and Practical Approaches outlines and assesses the various methods used to reconstruct and explain the past interaction between people and their environment. Emphasising the importance of a highly scientific approach to the subject, the book combines
geoarchaeological, bioarchaeological (archaeobotany and zooarchaeology) and geochronological information and examines how these various aspects of archaeology may be used to enhance our knowledge and understanding of past human environments. Drawing from both the practical experiences of the authors and cutting-edge research, Environmental Archaeology: Theoretical and Practical Approaches is a valuable contribution to the subject. It will be essential reading for students and professionals in archaeology, geography and anthropology.

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