

## The Neanderthal Legacy An Archaeological Perspective From Western Europe

"Rather than explaining the archaeology of stones and bones as the product of group decisions, the contributors investigate how individual action created social life. This challenge to the accepted standpoint of the Palaeolithic brings new models and theories into the period; innovations that are matched by the resolution of the data that preserve individual action among the artefacts. The book brings together examples from recent excavations at Boxgrove, Schoningen and Blombos Cave, and the analyses of findings from Middle and Early Upper Pleistocene excavations in Europe, Africa and Asia. The results will revolutionise the Palaeolithic as archaeologists search for the lived lives among the empty spaces that remain."--BOOK JACKET.

How did religion emerge—and why? What are the links between behavior, environment, and religiosity? Diving millions of years into the past, to a time when human ancestors began grappling with issues of safety, worth, identity, loss, power, and meaning in complex and difficult environments, Gregory J. Wightman explores the significance of goal-directed action and the rise of material culture for the advent of religiosity and ritual. The book opens by tackling questions of cognitive evolution and group psychology, and how these ideas can integrate with archaeological evidence such as stone tools, shell beads, and graves. In turn, it focuses on how human ancestors engaged with their environments, how those engagements became routine, and how, eventually, certain routines took on a recognizably ritualistic flavor.

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Wightman also critically examines the very real constraints on drawing inferences about prehistoric belief systems solely from limited material residues. Nevertheless, Wightman argues that symbolic objects are not merely illustrative of religion, but also constitutive of it; in the continual dance between brain and behavior, between internal and external environments, lie the seeds of ritual and religion. Weaving together insights from archaeology; anthropology; cognitive and cultural neuroscience; history and philosophy of religions; and evolutionary, social, and developmental psychology, Wightman provides an intricate, evidence-based understanding of religion's earliest origins.

'Beautiful, evocative, authoritative.' Professor Brian Cox 'Important reading not just for anyone interested in these ancient cousins of ours, but also for anyone interested in humanity.' Yuval Noah Harari Kindred is the definitive guide to the Neanderthals. Since their discovery more than 160 years ago, Neanderthals have metamorphosed from the losers of the human family tree to A-list hominins. Rebecca Wragg Sykes uses her experience at the cutting-edge of Palaeolithic research to share our new understanding of Neanderthals, shoving aside clichés of rag-clad brutes in an icy wasteland. She reveals them to be curious, clever connoisseurs of their world, technologically inventive and ecologically adaptable. Above all, they were successful survivors for more than 300,000 years, during times of massive climatic upheaval. Much of what defines us was also in Neanderthals, and their DNA is still inside us. Planning, co-operation, altruism, craftsmanship, aesthetic sense, imagination, perhaps even a desire for transcendence beyond mortality. Kindred does for Neanderthals what Sapiens did for us, revealing a deeper, more nuanced story where humanity itself is our ancient, shared inheritance.

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Evolutionary Research in Archaeology seeks to provide a comprehensive overview of contemporary evolutionary research in archaeology. The book will provide a single source for introduction and overview of basic and advanced evolutionary concepts and research programs in archaeology. Content will be organized around four areas of critical research including microevolutionary and macroevolutionary process, human ecology studies (evolutionary ecology, demography, and niche construction), and evolutionary cognitive archaeology. Authors of individual chapters will address theoretical foundations, history of research, contemporary contributions and debates, and implications for the future for their respective topics. As appropriate, authors present or discuss short empirical case studies to illustrate key arguments. ?

Presents a collection of work in processual archaeology that represents a wide range of research domains, rather than being focused on a specific topic or style of research. The volume traces the controversy that revolves around the bio-cultural relationships of Archaic (Neanderthal) and Modern humans at global and regional, Levantine scales. The focus of the book is on understanding the degree to which the behavioral organization of Archaic groups differed from Moderns. To this end, a case study is presented for a 44-70,000 year old, Middle Paleolithic occupation of a Jordanian rockshelter. The research, centering on the spatial analysis of artifacts, hearths and related data, reveals how the Archaic occupants of the shelter structured their activities and placed certain conceptual labels on different parts of the site. The structure of Tor Faraj is compared to site structures defined for modern foragers, in both ethnographic and archaeological contexts, to measure any differences in behavioral organization. The comparisons show very similar structures for Tor Faraj and its modern

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cohorts. The implications of this finding challenge prevailing views in the emergence of modern human controversy in which Archaic groups are thought to have had inferior cognition and less complex behavioral-social organization than modern foragers. And, it is generally thought that such behaviors only emerged after the appearance of the Upper Paleolithic, dated some 10-20,000 years later than the occupation of Tor Faraj.

The first in a two-volume series, *Landscape Archaeology in Southern Epirus, Greece*, this book presents the results of the Nikopolis Project (1991-1996), the first large-scale, systematic survey in the Epirus region of Greece.

Michael P. Richards and Jean-Jacques Hublin The study of hominin diets, and especially how they have (primates, modern humans), (2) faunal and plant studies, (3) evolved throughout time, has long been a core research archaeology and paleoanthropology, and (4) isotopic studies. area in archaeology and paleoanthropology, but it is also This volume therefore presents research articles by most of becoming an important research area in other fields such as these participants that are mainly based on their presentations primatology, nutrition science, and evolutionary medicine. at the symposium. As can hopefully be seen in the volume, Although this is a fundamental research topic, much of the these papers provide important reviews of the current research research continues to be undertaken by specialists and there in these areas, as well as often present new research on dietary is, with some notable exceptions (e. g. , Stanford and Bunn, evolution. 2001; Ungar and Teaford, 2002; Ungar, 2007) relatively lit- In the section on modern studies Hohmann provides a tle interaction with other researchers in other fields. This is review of the diets of non-human primates, including an unfortunate, as recently it has appeared that different lines interesting discussion

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of the role of food-sharing amongst of evidence are causing similar conclusions about the major these primates. Snodgrass, Leonard, and Roberston provide issues of hominid dietary evolution (i. e.

The Shanidar Neandertals describes the functional morphology of the Neanderthals and their place in human evolution based on a paleontological study of fossils discovered at Shanidar Cave in northeastern Iraq. Functional interpretations are provided that describe and discuss the individual fossils. The phylogenetic implications of the Shanidar specimens are also discussed. Comprised of 14 chapters, this book begins with an overview of the Neanderthal remains from the Shanidar Cave and the paleontological data obtained from the fossils. The discussion then turns to the history of the excavations in Shanidar Cave and the discoveries of the Neanderthals; morphometrics of the Shanidar remains; and determination of the age and sex of the Shanidar Neanderthals. Subsequent chapters focus on various aspects of the Neanderthal fossils, including the cranial and mandibular remains; the dental remains; the axial skeleton; and the upper and lower limb remains. The immature remains are also described, along with bodily proportions and the estimation of stature. This monograph will be of interest to archaeologists, anthropologists, paleontologists, and paleopathologists.

The Stone Age is now beginning to be recognised as vital in establishing who we are and where we have come from. This period has long been neglected.

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This Handbook provides a comprehensive synthesis of African archaeology, covering the entirety of the continent's past from the beginnings of human evolution to the archaeological legacy of European colonialism. It includes a mixture of key methodological and theoretical issues and debates and situates the subject's contemporary practice.

The breathtakingly beautiful art created deep inside the caves of western Europe has the power to dazzle even the most jaded observers. Emerging from the narrow underground passages into the chambers of caves such as Lascaux, Chauvet, and Altamira, visitors are confronted with symbols, patterns, and depictions of bison, woolly mammoths, ibexes, and other animals. Since its discovery, cave art has provoked great curiosity about why it appeared when and where it did, how it was made, and what it meant to the communities that created it. David Lewis-Williams proposes that the explanation for this lies in the evolution of the human mind. Cro-Magnons, unlike the Neanderthals, possessed a more advanced neurological makeup that enabled them to experience shamanistic trances and vivid mental imagery. It became important for people to "fix," or paint, these images on cave walls, which they perceived as the membrane between their world and the spirit world from which the visions came. Over time, new social distinctions developed as individuals exploited their hallucinations for personal advancement, and the first truly modern society emerged. Illuminating glimpses into the ancient mind are skillfully interwoven here with the still-evolving story

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of modern-day cave discoveries and research. *The Mind in the Cave* is a superb piece of detective work, casting light on the darkest mysteries of our earliest ancestors while strengthening our wonder at their aesthetic achievements.

In pre-scientific thought mind itself, and its religious perceptions particularly, were considered gifts from God, injected into a previously created world of matter. By contrast, all the contributors to this book accept an evolutionary account of life, mind and its religious dispositions. However they hold more divergent views on the relation of mind to body and brain, on the validity of those religious dispositions, and on how far even Christ, and his predicted Second Coming, may be seen as aspect of the evolutionary process. The seventeen contributions are rewritten and extended versions of papers first delivered at the annual conference of the UK's Science and Religion Forum, held at Canterbury Christ Church College in Sept 2007. Though most speakers were British, representatives from The Netherlands, Jordan, Zimbabwe and USA also contributed. Invited individual chapters consider the general pattern of evolutionary thought, arguing that it can make a major contribution to the maturation of theology; archeological evidence for the emergence of religion, and the proposal that it was an inevitable phase in human evolution; the contribution of religious concepts to the development of our species, and the question whether that provides any ground for accepting them as true; the unresolved debate whether mind is a separate entity from brain, or a consequence of its activity; and the melding of paleo-anthropology with

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theology to provide an integrated account of humanity and its culmination in Christ. Each of these papers is the subject of an individual expert response, and they are all drawn together in an overview essay which concludes the first part of the book. The second, shorter part contains a selection from the papers contributed by registrants for the meeting. Their topics are whether mathematics consists of truths discovered, or thought-forms developed, by human minds; ecological awareness as an evolutionary development; the neurobiology of freewill and sin; an evolutionary perspective on holistic medicine; and the impressive fruitfulness of juxtaposing neurophysiological and biblical concepts of the human body-mind.

An Integrated Picture of Prehistory as an Active Process of Discovery World Prehistory and Archaeology: Pathways through Time, fourth edition, provides an integrated discussion of world prehistory and archaeological methods. This text emphasizes the relevance of how we know and what we know about our human prehistory. A cornerstone of World Prehistory and Archaeology is the discussion of prehistory as an active process of discovery. Methodological issues are addressed throughout the text to engage readers. Archaeological methods are introduced in the first two chapters. Succeeding chapters then address the question of how we know the past to provide an integrated presentation of prehistory. The fourth edition involves readers in the current state of archaeological research, revealing how archaeologists work and interpret what they find. Through the coverage of various new research, author Michael Chazan



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shows how archaeology is truly a global discipline. Learning Goals Upon completing this book, readers will be able to: \* Gain new perspectives and insights into who we are and how our world came into being. \* Think about humanity from the perspective of archaeology. \* Appreciate the importance of the archaeological record for contemporary society.

This volume represents the product of 25 years of study conducted by the Pylos Regional Archaeological Project, a multidisciplinary, diachronic archaeological expedition formally organized in 1990 to investigate the history of prehistoric and historic settlement in western Messenia in Greece. An introduction, setting the project in context, and an extensive gazetteer of sites precede a collection of eight previously published articles, which appeared in *Hesperia*, the journal of the American School of Classical Studies at Athens, between 1997 and 2010. Taken together, these contributions document a comprehensive methodological approach by an archaeological project that was one of the first to incorporate new technologies such as digital mapping tools and online databases. The results of such a long-term and multifaceted research program illuminate the shifting relationships between humans, their landscapes, and historical forces, both local and distant. The Pylos Regional Archaeological Project: A Retrospective provides an invaluable resource not only for those interested in the history and development of southwestern Greece but also for researchers interested in exploring the full range of methodological approaches to

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archaeological survey.

For over 25 years The Handbook of British Archaeology has been the foremost guide to archaeological methods, artefacts and monuments, providing clear explanations of all specialist terms used by archaeologists. This completely revised and updated edition is packed with the latest information and now includes the most recent developments in archaeological science. Meticulously researched, every section has been extensively updated by a team of experts. There are chapters devoted to each of the archaeological periods found in Britain, as well as two chapters on techniques and the nature of archaeological remains. All the common artefacts, types of sites and current theories and methods are covered. The growing interest in post-medieval and industrial archaeology is fully explored in a brand new section dealing with these crucial periods. Hundreds of new illustrations enable instant comparison and identification of objects and monuments - from Palaeolithic handaxes to post-medieval gravestones. Several maps pinpoint the key sites, and other features include an extensive bibliography and a detailed index. The Handbook of British Archaeology is the most comprehensive resource book available and is essential for anyone with an interest in the subject - from field archaeologists and academics to students, heritage professionals, Time Team followers and amateur enthusiasts.

"In the first complete chronological narrative of the species from emergence to extinction...archaeologist Dimitra Papagianni and science historian Michael Morse have

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shaped a gem." —Nature In recent years, the common perception of the Neanderthals has been transformed, thanks to new discoveries and paradigm-shattering scientific innovations. It turns out that the Neanderthals' behavior was surprisingly modern: they buried the dead, cared for the sick, hunted large animals in their prime, harvested seafood, and communicated with spoken language. Meanwhile, advances in DNA technologies are compelling us to reassess the Neanderthals' place in our own past. For hundreds of thousands of years, Neanderthals evolved in Europe parallel to Homo sapiens evolving in Africa, and, when both species made their first forays into Asia, the Neanderthals may even have had the upper hand. In this important volume, Dimitra Papagianni and Michael A. Morse compile the first full chronological narrative of the Neanderthals' dramatic existence—from their evolution in Europe to their expansion to Siberia, their subsequent extinction, and ultimately their revival in popular novels, cartoons, cult movies, and television commercials.

Prehistoric archaeologists cannot observe their human subjects nor can they directly access their subjects' ideas. Both must be inferred from the remnants of the material objects they made and used. In recent decades this incontrovertible fact has encouraged partisan approaches to the history and method of archaeology. An empirical discipline emphasizing data, classification, and chronology has given way to a behaviorist approach that interprets finds as products of ecologically adaptive strategies, and to a postmodern alternative that relies on an idealist, cultural-relativist

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epistemology based on belief and cultural traditions. In *Artifacts and Ideas*, Bruce G. Trigger challenges all partisan versions of recent developments in archaeology, while remaining committed to understanding the past from a social science perspective. Over 30 years, Trigger has addressed fundamental epistemological issues, and opposed the influence of narrow theoretical and ideological commitments on archaeological interpretation since the 1960s. Trigger encourages a relativistic understanding of archaeological interpretation. Yet as post-processual archaeology, influenced by postmodernism, became increasingly influential, Trigger countered nihilistic subjectivism by laying greater emphasis on how in the long run the constraints of evidence could be expected to produce a more comprehensive and objective understanding of the past. In recent years Trigger has argued that while all human behavior is culturally mediated, the capacity for such mediation has evolved as a flexible and highly efficient means by which humans adapt to a world that exists independently of their will. Trigger agrees that a complete understanding of what has shaped the archaeological record requires knowledge both of past beliefs and of human behavior. He knows also that one must understand humans as organisms with biologically grounded drives, emotions, and means of understanding. Likewise, even in the absence of data supplied in a linguistic format by texts and oral traditions, at least some of the more ecologically adaptive forms of human behavior and some general patterns of belief that display cross-cultural uniformity will be susceptible to

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archaeological analysis. Advocating a realist epistemology and a materialist ontology, *Artifacts and Ideas* offers an illuminating guide to the present state of the discipline as well as to how archaeology can best achieve its goals.

*An Archaeology of Materials* sets out a new approach to the study of raw materials. Traditional understandings of materials in archaeology (and in western thought more widely) have failed to acknowledge both the complexity and, moreover, the benefits of an analysis of materials. Here Conneller argues that materials cannot be understood independently of the practices through which they are constituted. Drawing on a number of different thinkers, and using case studies from the European early Prehistoric period, she investigates how we can rethink the properties of matter and the relationship of material and form. What emerges from this book is the variability and the specificity of human-material interactions and the rather more active role that matter plays in these than traditionally conceived. Rather than being insignificant, a formless substrate or simply a constraint to human action, it is argued that materials are more fundamental. Tracing the processes by which the properties of past materials emerge reveals the working of past worlds, particularly articulations of the cultural, the natural and the supernatural. This book will establish a new perspective on the meaning and significance of materials, particularly those involved in mundane, daily usage, and will be a timely addition to the literature on technologies and materials.

\*Includes pictures \*Includes online resources and a bibliography for further reading In

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popular culture, the term Neanderthal is used as a colloquial insult for a degenerate or someone perceived as stupid. This seems to have been the case even from the first recognition of the Neanderthals as a species. The first Neanderthal fossil discovery was that of a child's skull in Belgium in 1829, but it was badly damaged. Another would be discovered in 1856 in a limestone mine of the Neanderthal region of what is present-day Germany, and a skull with differing distinct traits (indicating a different species than the Neanderthals) would be discovered just over a decade later in southwestern France. The latter specimen would come to be recognized as an example of the species *Homo Sapiens*, and these anatomically modern humans arrived in Europe between 45,000 and 43,000 years ago, around the time the Neanderthals are believed to started going extinct. The Neanderthals are a member of the genus *Homo* just like *Homo sapiens* and share roughly 99.7% of their DNA with modern humans (Reynolds and Gallagher 2012). Both species even lived briefly during the same time in Eurasia. However, the Neanderthals evolved separately in Europe, away from modern humans, who evolved in Africa. The Neanderthals lived in Europe and Asia for nearly 200,000 years and thrived in these regions, but they went extinct between 40,000 and 30,000 years ago, around the same time that modern humans began arriving in Europe. This has prompted much speculation as to the nature of the interactions between Neanderthals and *Homo sapiens*, especially since some researchers believe they interacted with each other for over 5,000 years before the Neanderthals began going

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extinct at different times across Europe. One hypothesis is that Homo sapiens displaced the Neanderthals and were better suited for the environment, and it is obviously possible if not likely that these two groups had become competitors for food and other resources, with Homo sapiens being more successful in the end. If such close interactions were taking place, there is also a possibility that the relatively new-to-Europe Homo sapiens brought pathogens from Africa with them that were unknown to the Neanderthal's immune system. A more recent example of this type of resulting interaction is the European expansion into the Americas, which brought diseases like smallpox that the natives of America had never experienced before, especially diseases resulting from the domestication of animals. It is possible that the domestication of the dog by Homo sapiens may have contributed in spreading foreign diseases among the Neanderthals. Whether or not this occurred, it is highly likely that the interactions between the two groups became much more intimate at one point. The Neanderthals were able to make and use a diverse set of sophisticated tools, control fire, make and wear clothing, and create decorations and ornaments. There is even evidence that the Neanderthal buried their dead with grave offerings, a practice that is also associated with later Homo sapiens, which suggests the two species were exchanging ideas such as tool making and rituals. Archaeological sites from Spain to Russia have been discovered that contain transitional stone tools associated with either Homo sapiens or Neanderthals. From the archaeological evidence alone, it is difficult to determine the

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level of interactions that were held at these sites. These sites may have been used at the same time. The Neanderthals and Cro-Magnon: The History and Legacy of the First People to Migrate to Europe looks at the evolution of both and examines the theories regarding their histories and interactions. Along with pictures of important people, places, and events, you will learn about the Neanderthals and Cro-Magnon like never before.

In the long tradition of the archaeology of the eastern Mediterranean bodies have held a prominent role in the form of figurines, frescos, or skeletal remains, and have even been responsible for sparking captivating portrayals of the Mother-Goddess cult, the elegant women of Minoan Crete or the deeds of heroic men. Growing literature on the archaeology and anthropology of the body has raised awareness about the dynamic and multifaceted role of the body in experiencing the world and in the construction, performance and negotiation of social identity. In these 28 thematically arranged papers, specialists in the archaeology of the eastern Mediterranean confront the perceived invisibility of past bodies and ask new research questions. Contributors discuss new and old evidence; they examine how bodies intersect with the material world, and explore the role of body-situated experiences in creating distinct social and other identities. Papers range chronologically from the Palaeolithic to the Early Iron Age and cover the geographical regions of the Aegean, Cyprus and the Near East. They highlight the new possibilities that emerge for the interpretation of the prehistoric



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eastern Mediterranean through a combined use of body-focused methodological and theoretical perspectives that are nevertheless grounded in the archaeological record. In *Archaeological Variability and Interpretation in Global Perspective*, contributors illustrate the virtues of various ecological, experimental, statistical, typological, technological, and cognitive/social approaches for understanding the origins, formation histories, and inferential potential of a wide range of archaeological phenomena. As archaeologists worldwide create theoretically inspired and methodologically robust narratives of the cultural past, their research pivots on the principle that determining the origins and histories of archaeological phenomena is essential in understanding their relevance for a variety of anthropological problems. The chapters explore how the analysis of artifact, assemblage, and site distributions at different spatial and temporal scales provides new insights into how mobility strategies affect lithic assemblage composition, what causes unstable interaction patterns in complex societies, and which factors promote a sense of “place” in landscapes of abandoned structures. In addition, several chapters illustrate how new theoretical approaches and innovative methods promote reinterpretations of the regional significance of historically important archaeological sites such as Myrtos-Pyrgos (Crete, Greece), Aztalan (Wisconsin, USA), Tabun Cave (Israel), and Casas Grandes (Chihuahua, Mexico). The studies presented in *Archaeological Variability and Interpretation in Global Perspective* challenge orthodoxy, raise research-worthy controversies, and develop strong inferences about

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the diverse evolutionary pathways of humankind using theoretical perspectives that consider both new information and preexisting archaeological data. Contributors: C. Michael Barton, Brian F. Byrd, Gerald Cadogan, Philip G. Chase, Harold L. Dibble, Matthew J. Douglass, Patricia C. Fanning, Lynne Goldstein, Simon J. Holdaway, Kathryn A. Kamp, Sam Lin, Emilia Oddo, Zeljko Rezek, Julien Riel-Salvatore, Gary O. Rollefson, Jeffrey Rosenthal, Barbara J. Roth, Sissel Schroeder, Justin I. Shiner, John C. Whittaker, David R. Wilcox

The Oxford Handbook of the Archaeology of Death and Burial reviews the current state of mortuary archaeology and its practice, highlighting its often contentious place in the modern socio-politics of archaeology. It contains forty-four chapters which focus on the history of the discipline and its current scientific techniques and methods. Written by leading, international scholars in the field, it derives its examples and case studies from a wide range of time periods, such as the middle palaeolithic to the twentieth century, and geographical areas which include Europe, North and South America, Africa, and Asia. Combining up-to-date knowledge of relevant archaeological research with critical assessments of the theme and an evaluation of future research trajectories, it draws attention to the social, symbolic, and theoretical aspects of interpreting mortuary archaeology. The volume is well-illustrated with maps, plans, photographs, and illustrations and is ideally suited for students and researchers.

In this book an internationally distinguished roster of contributors considers the state of

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the art of the discipline of archaeology at the turn of the 21st century and charts an ambitious agenda for the future. The chapters address a wide range of topics including, paradigms, practice, and relevance of the discipline; paleoanthropology; fully modern humans; holocene hunter-gatherers; the transition to food and craft production; social inequality; warfare; state and empire formation; and the uneasy relationship between classical and anthropological archaeology.

The Neanderthal Legacy An Archaeological Perspective from Western Europe Princeton University Press

This book, a guide and companion to the prehistoric archaeology of Greece, is designed for students, travelers, and all general readers interested in archaeology. Greece has perhaps the longest and richest archaeological record in Europe, and this book reviews what is known of Greece from the earliest inhabitants in the Stone Age to the end of the Bronze Age and the collapse of the Minoan and Mycenaean civilizations. The book describes the prehistoric cultures of Greece in chronological order, and illustrates with 98 detailed drawings each culture's typical artifacts, architecture, burial customs, and art. Written in an informal and accessible style free of scientific jargon, the book can be used in the classroom or as a guide for the traveler, or read simply for pleasure by anyone with a curiosity about the earliest ages of this fascinating region. Although intended for a wide audience, the book has a solid scientific foundation. The authors are professional archaeologists with more than 25 years of experience in the field and with a first-hand knowledge of the methods and results of contemporary research. There is no other book today that covers the same range of periods and subjects,

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making it essential reading for anyone interested in the early civilizations that shaped the Greek landscape, laid the foundations for Classical Greek civilization, and contributed in many ways to the formation of the modern Greek world. The authors have been careful to address the many questions concerning prehistoric Greece that have been asked them by students and visitors to Greece through the years. The illustrations were created especially for this book, showing familiar artifacts and sites from a new perspective, and selecting others for illustration that rarely, if ever, appear in popular publications.

This 3-volume handbook brings together contributions by the world's leading specialists that reflect the broad spectrum of modern palaeoanthropology, thus presenting an indispensable resource for professionals and students alike. Vol. 1 reviews principles, methods, and approaches, recounting recent advances and state-of-the-art knowledge in phylogenetic analysis, palaeoecology and evolutionary theory and philosophy. Vol. 2 examines primate origins, evolution, behaviour, and adaptive variety, emphasizing integration of fossil data with contemporary knowledge of the behaviour and ecology of living primates in natural environments. Vol. 3 deals with fossil and molecular evidence for the evolution of *Homo sapiens* and its fossil relatives.

Archaeologies of the Middle East provides an innovative introduction to the archaeology of this fascinating region and a window on both its past and present. Written by some of the top archaeologists of the Middle East: scholars from diverse backgrounds with a wide range of interests and intellectual approaches Coverage spans 100,000 years: from the Paleolithic to Hellenistic times Explores the connections between modern-day politics and the social context of archaeological practice and various underutilized approaches to archaeological

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interpretation Designed for student use

This book provides an archaeological synthesis of Southern Africa.

A groundbreaking argument about the link between autism and ingenuity. Why can humans alone invent? In *The Pattern Seekers*, Cambridge University psychologist Simon Baron-Cohen makes a case that autism is as crucial to our creative and cultural history as the mastery of fire. Indeed, Baron-Cohen argues that autistic people have played a key role in human progress for seventy thousand years, from the first tools to the digital revolution. How? Because the same genes that cause autism enable the pattern seeking that is essential to our species's inventiveness. However, these abilities exact a great cost on autistic people, including social and often medical challenges, so Baron-Cohen calls on us to support and celebrate autistic people in both their disabilities and their triumphs. Ultimately, *The Pattern Seekers* isn't just a new theory of human civilization, but a call to consider anew how society treats those who think differently.

As the study of Palaeolithic technologies moves towards a more analytical approach, it is necessary to determine a consistent procedural framework. The contributions to this timely and comprehensive volume do just that. This volume incorporates a broad chronological and geographical range of Palaeolithic material from the Lower to Upper Palaeolithic. The focus of this volume is to provide an analysis of Palaeolithic technologies from a quantitative, empirical perspective. As new techniques, particularly quantitative methods, for analyzing Palaeolithic technologies gain popularity, this work provides case studies particularly showcasing these new techniques. Employing diverse case studies, and utilizing multivariate approaches, morphometrics, model-based approaches, phylogenetics, cultural transmission studies, and

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experimentation, this volume provides insights from international contributors at the forefront of recent methodological advances.

This dictionary provides those studying or working in archaeology with a complete reference to the field.

The aim of this book is to provide a new insight on Neanderthal behaviour using the data recovered in level J of Romaní rockshelter (north-eastern Spain). Due to the sedimentary dynamics that formed the Romaní deposit, the occupation layers are characterized by a high temporal resolution, which makes it easier to interpret the archaeological data in behavioural terms. In addition, the different analytical domains (geoarchaeology, lithic technology, zooarchaeology, taphonomy, anthracology, palaeontology) are addressed from a spatial perspective that is basic to understand human behaviour, but also to evaluate the behavioural inferences in the framework of the archaeological formation processes.?

Praise for the first edition: "The most up-to-date and wide-ranging encyclopedia work on human evolution available."--American Reference Books Annual "For student, researcher, and teacher...the most complete source of basic information on the subject."--Nature "A comprehensive and authoritative source, filling a unique niche...essential to academic libraries...important for large public

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libraries." --Booklist/RBB

“Even-handed, up-to-date, and clearly written. . . . If you want to navigate between the Scylla and Charybdis of Neanderthal controversies, you’ll find no better guide.” —Brian Fagan, author of *Cro-Magnon* In recent years, the common perception of the Neanderthal has been transformed thanks to new discoveries and paradigm-shattering scientific innovations. It turns out that the Neanderthals’ behavior was surprisingly modern: they buried the dead, cared for the sick, hunted large animals in their prime, harvested seafood, and spoke. Meanwhile, advances in DNA technologies have forced a reassessment of the Neanderthals’ place in our own past. For hundreds of thousands of years, Neanderthals evolved in Europe very much in parallel to the *Homo sapiens* line evolving in Africa, and, when both species made their first forays into Asia, the Neanderthals may even have had the upper hand. Here, Dimitra Papagianni and Michael A. Morse look at the Neanderthals through the full dramatic arc of their existence—from their evolution in Europe to their expansion to Siberia, their subsequent extinction, and ultimately their revival in popular novels, cartoons, cult movies, and TV commercials.

This book describes the emergent nature of human culture, based on the human ability to create and pass on social codes through instruction and example. It

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proposes hypotheses to explain how a phenomenon that is potentially maladaptive for individuals could have evolved, and to explain why culture plays such a pervasive role in human life. It then reviews the primatological, fossil, and archaeological data to test these hypotheses.

The Neanderthals populated western Europe from nearly 250,000 to 30,000 years ago when they disappeared from the archaeological record. In turn, populations of anatomically modern humans, *Homo sapiens*, came to dominate the area. Seeking to understand the nature of this replacement, which has become a hotly debated issue, Paul Mellars brings together an unprecedented amount of information on the behavior of Neanderthals. His comprehensive overview ranges from the evidence of tool manufacture and related patterns of lithic technology, through the issues of subsistence and settlement patterns, to the more controversial evidence for social organization, cognition, and intelligence. Mellars argues that previous attempts to characterize Neanderthal behavior as either "modern" or "ape-like" are both overstatements. We can better comprehend the replacement of Neanderthals, he maintains, by concentrating on the social and demographic structure of Neanderthal populations and on their specific adaptations to the harsh ecological conditions of the last glacial period. Mellars's approach to these issues is grounded firmly in his archaeological



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evidence. He illustrates the implications of these findings by drawing from the methods of comparative socioecology, primate studies, and Pleistocene paleoecology. The book provides a detailed review of the climatic and environmental background to Neanderthal occupation in Europe, and of the currently topical issues of the behavioral and biological transition from Neanderthal to fully "modern" populations.

Despite the obvious geographic importance of eastern Asia in human migration, its discussion in the context of the emergence and dispersal of modern humans has been rare. *Emergence and Diversity of Modern Human Behavior in Paleolithic Asia* focuses long-overdue scholarly attention on this under-studied area of the world. Arising from a 2011 symposium sponsored by the National Museum of Nature and Science in Tokyo, this book gathers the work of archaeologists from the Pacific Rim of Asia, Australia, and North America, to address the relative lack of attention given to the emergence of modern human behavior as manifested in Asia during the worldwide dispersal from Africa. Modern human origins and the fate of the Neanderthals are arguably the most compelling and contentious arenas in paleoanthropology. The much-discussed split between advocates of a single, early emergence of anatomically modern humans in sub-Saharan Africa and supporters of various regional continuity

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positions is only part of the picture. Equally if not more important are questions surrounding the origins of modern behavior, and the relationships between anatomical and behavioral changes that occurred during the past 200,000 years. Although modern humans as a species may be defined in terms of their skeletal anatomy, it is their behavior, and the social and cognitive structures that support that behavior, which most clearly distinguish *Homo sapiens* from earlier forms of humans. This book assembles researchers working in Eurasia and Africa to discuss the archaeological record of the Middle Paleolithic and the Middle Stone Age. This is a time period when *Homo sapiens* last shared the world with other species, and during which patterns of behavior characteristic of modern humans developed and coalesced. Contributions to this volume query and challenge some current notions about the tempo and mode of cultural evolution, and about the processes that underlie the emergence of modern behavior. The papers focus on several fundamental questions. Do typical elements of "modern human behavior" appear suddenly, or are there earlier archaeological precursors of them? Are the archaeological records of the Middle Paleolithic and Middle Stone Age unchanging and monotonous, or are there detectable evolutionary trends within these periods? Coming to diverse conclusions, the papers in this volume open up new avenues to thinking about this crucial interval in human evolutionary

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history.

There have been many books, movies, and even TV commercials featuring Neandertals--some serious, some comical. But what was it really like to be a Neandertal? How were their lives similar to or different from ours? In *How to Think Like a Neandertal*, archaeologist Thomas Wynn and psychologist Frederick L. Coolidge team up to provide a brilliant account of the mental life of Neandertals, drawing on the most recent fossil and archaeological remains. Indeed, some Neandertal remains are not fossilized, allowing scientists to recover samples of their genes--one specimen had the gene for red hair and, more provocatively, all had a gene called FOXP2, which is thought to be related to speech. Given the differences between their faces and ours, their voices probably sounded a bit different, and the range of consonants and vowels they could generate might have been different. But they could talk, and they had a large (perhaps huge) vocabulary--words for places, routes, techniques, individuals, and emotions. Extensive archaeological remains of stone tools and living sites (and, yes, they did often live in caves) indicate that Neandertals relied on complex technical procedures and spent most of their lives in small family groups. The authors sift the evidence that Neandertals had a symbolic culture--looking at their treatment of corpses, the use of fire, and possible body

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coloring--and conclude that they probably did not have a sense of the supernatural. The book explores the brutal nature of their lives, especially in northwestern Europe, where men and women with spears hunted together for mammoths and woolly rhinoceroses. They were pain tolerant, very likely taciturn, and not easy to excite. Wynn and Coolidge offer here an eye-opening portrait of Neandertals, painting a remarkable picture of these long-vanished people and providing insight, as they go along, into our own minds and culture.

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