



## 1.考古学百科事典・全4巻

# The Encyclopedia of Archaeological Sciences

### 4 Volume Set

Edited by **SANDRA L. LÓPEZ VARELA**  
*Universidad Autonoma Del Estado De Morelos*

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The SAS Encyclopedia of Archaeological Sciences provides an authoritative and expert overview of the concepts, research, and techniques that together define the discipline. Sponsored by The Society for Archaeological Sciences, it is an essential reference resource for those in the field of archaeology who want to understand the lives of those who have come before us, supported not only by science and technology, but also by theoretical approaches from the social sciences and the humanities. Comprised of over 480 entries contributed by scholars from all over the world and managed by 11 international and well recognized section editors, this comprehensive encyclopedia provides a broad overview of the scientific principles and techniques that allow for a more rigorous interpretation of archaeological data. It outlines how to study the characteristics and properties of materials, as well as instrumental techniques and relative methods currently applied in field and laboratory work. Key areas of content include Foundations of Archaeological Sciences, Field Methods in Archaeology, Analyses of Materials, Mathematics and Computer Sciences, Conservation, Cultural Heritage, and Theoretical approaches to the study of material culture and our uses of archaeological sciences. As the 21st century promises to bring greater challenges to our capacity to live on the planet, archaeologists in collaboration with their scientific colleagues provide important evidence and solutions through their documentation of the diversity and complexity of human societies through time. The SAS Encyclopedia of Archaeological Sciences will therefore be a valuable reference work for students, researchers, and professionals in anthropology and archaeology as well as other disciplines.

### About the Author

Editor-in-Chief **Sandra L. López Varela** is Professor in the Facultad de Filosofía y Letras, Universidad Nacional Autónoma de México. She has dedicated her efforts to promote science and technology in archaeological research, receiving the Friedrich Wilhelm Bessel Prize from the Alexander von Humboldt Foundation (2012). She has served at the Executive Board of the American Anthropological Association (2011–2014), as President of the Society for Archaeological Sciences (2009–2011), and as Treasurer of the Sociedad Mexicana de Antropología. She has also published in numerous international journals and editorials.

Hardcover (Wiley-Blackwell) ISBN 978-0-470-67461-1

## 2. Archaeology

### The Science of the Human Past, 5th Edition

By Mark Q Sutton

Aug 2018, 414 pages, Hardback (Routledge)

ISBN 9781138105928 ¥48,600

Archaeology: The Science of the Human Past provides an introduction to the broad and fascinating world of archaeology from the scientific perspective. Conveying the exhilaration of archaeological work, it explores the ways archaeologists analyse and interpret evidence. Varying perspectives are considered to provide holistic coverage of archaeological techniques and methods and show how the complexity of the past can be captured by the empirical science of archaeology. The Fifth Edition has been updated and revised to include the latest archaeological approaches and the impact developments in archaeological science have made in recent years. The chapter on bioarchaeology has been completely rewritten to reflect these developments. Archaeology: An Introduction will allow students to understand the theoretical and scientific aspects of archaeology and how various archaeological perspectives and techniques help us understand how and what we know about the past.

## 3. A Brief History of Archaeology

### Classical Times to the Twenty-First Century, 2nd Edition

By Brian M. Fagan

July 2017, Hardback (Routledge) ISBN

9781138436589 ¥35,230

This short account of the discipline of archaeology tells of spectacular discoveries and the colorful lives of the archaeologists who made them, as well as of changing theories and current debates in the field. Spanning over two thousand years of history, the book details early digs as well as covering the development of archaeology as a multidisciplinary science, the modernization of meticulous excavation methods during the twentieth century, and the important discoveries that led to new ideas about the evolution of human societies. A Brief History of Archaeology is a vivid narrative that will engage readers who are new to the discipline, drawing on the authors' extensive experience in the field and classroom. Early research at Stonehenge in Britain, burial mound excavations, and the exploration of Herculaneum and Pompeii culminate in the nineteenth century debates over human antiquity and the theory of evolution. The book then moves on to the discovery of the world's pre-industrial civilizations in Egypt, Mesopotamia, and Central America, the excavations at Troy and Mycenae, the Royal Burials at Ur, Iraq, and the dramatic finding of the pharaoh Tutankhamun in 1922. The book concludes by considering recent sensational discoveries, such as the Lords of Sip'in Peru, and exploring the debates over processual and postprocessual theory which have intrigued archaeologists in the early 21st century. The second edition updates this respected introduction to one of the sciences - most fascinating

## 4. Early Navigation in the Asia-Pacific Region

### A Maritime Archaeological Perspective

Edited by Chunming Wu

June 2016, 296 pages, Hardcover (Springer)

ISBN 9789811009037 ¥35,790

This book presents the proceedings of the international academic workshop on "Early Navigation in the Asia-Pacific Region: A Maritime Archaeological Perspective" held from June 21-23, 2013 at Harvard University campus and organized by Harvard-Yenching Institute. It includes high-quality papers focusing on the historical shipwrecks investigated by underwater archaeologists from Eastern Asian, including southern China, Vietnam, Thailand, the Philippines, Indonesia and Malaysia, and North America, including California, Oregon and Washington in the US, as well as Mexico. These investigations reveal the history of the early pan-Pacific navigation and maritime globalization from the 16th to the 18th century, covering the background and formation, concept and practice, as well as the results and influence of this early globalization and global economy, emphasizing the maritime archaeological evidence of Spanish exploration of transportation between East Asia and North America. The book provides an excellent opportunity for maritime archaeologists from both sides of the Pacific to share the latest findings and new developments in maritime archaeological exploration. It discusses 16-18th century nautical trade and maritime cultural history and provides a comprehensive overview of research work in the Asia-Pacific region.

## 5. Encyclopedia of Geoarchaeology

(Encyclopedia of Earth Sciences Series)

Edited by Paul Goldberg, Vance T. Holliday, Rolfe D. Mandel, Rob Sternberg, & Allan S. Gilbert

Oct 2016, 1046 pages, Hardcover (Springer) ISBN

9789400748279 ¥84,020

Geoarchaeology is the archaeological subfield that focuses on archaeological information retrieval and problem solving utilizing the methods of geological investigation. Archaeological recovery and analysis are already geoarchaeological in the most fundamental sense because buried remains are contained within and removed from an essentially geological context. Yet geoarchaeological research goes beyond this simple relationship and attempts to build collaborative links between specialists in archaeology and the earth sciences to produce new knowledge about past human behavior using the technical information and methods of the geosciences.

The principal goals of geoarchaeology lie in understanding the relationships between humans and their environment. These goals include (1) how cultures adjust to their ecosystem through time, (2) what earth science factors were related to the evolutionary emergence of humankind, and (3) which methodological tools involving analysis of sediments and landforms, documentation and explanation of change in buried materials, and measurement of time will allow access to new aspects of the past.

This encyclopedia defines terms, introduces problems, describes techniques, and discusses theory and strategy, all in a format designed to make specialized details accessible to the public as well as practitioners. It covers subjects in environmental archaeology, dating, materials analysis, and paleoecology, all of which represent different sources of specialist knowledge that must be shared in order to reconstruct, analyze, and explain the record of the human past. It will not specifically cover sites, civilizations, and ancient cultures, etc., that are better described in other encyclopedias of world archaeology.

## **6. Handbook of East and Southeast Asian Archaeology**

Edited by Junko Habu, Peter V. Lape & John W. Olsen

Dec 2017, 771 pages, Hardcover (Springer) ISBN 9781493965199 **¥63,170**

The Handbook of East and Southeast Asian Archaeology focuses on the material culture and lifeways of the peoples of prehistoric and early historic East and Southeast Asia; their origins, behavior and identities as well as their biological, linguistic and cultural differences and commonalities. Emphasis is placed upon the interpretation of material culture to illuminate and explain social processes and relationships as well as behavior, technology, patterns and mechanisms of long-term change and chronology, in addition to the intellectual history of archaeology as a discipline in this diverse region.

The Handbook augments archaeologically-focused chapters contributed by regional scholars by providing histories of research and intellectual traditions, and by maintaining a broadly comparative perspective. Archaeologically-derived data are emphasized with text-based documentary information, provided to complement interpretations of material culture. The Handbook is not restricted to art historical or purely descriptive perspectives; its geographical coverage includes the modern nation-states of China, Mongolia, Far Eastern Russia, North and South Korea, Japan, Taiwan, Vietnam, Cambodia, Laos, Thailand, Burma, Malaysia, Indonesia, the Philippines and East Timor.

## **7. Handbook of Research on Emerging Technologies for Architectural and Archaeological Heritage**

(Series: Advances in Religious and Cultural Studies)

Edited by Alfonso Ippolito

Aug 2016, 647 pages, Hardcover (IGI Global) ISBN 9781522506751 **¥45,990**

Cultural heritage is a vital, multifaceted component of modern society. To better protect and promote the integrity of a culture, certain technologies have become essential tools.

The Handbook of Research on Emerging Technologies for Architectural and Archaeological Heritage is an authoritative reference source for the latest scholarly research on the use of technological assistance for the preservation of architecture and archaeology in a global context. Focusing on various surveying technologies for the study, analysis, and protection of historical buildings, this book is ideally designed for professionals, researchers, upper-level students, and practitioners.

## **8. Museums and Archaeology**

Edited by Robin Skeates

Feb 2017, 662 pages, Hardcover: (Routledge)

ISBN 9781138026223 **¥40,090**

Museums and Archaeology brings together a wide, but carefully chosen, selection of literature from around the world that connects museums and archaeology. Part of the successful Leicester Readers in Museum Studies series, it provides a combination of issue- and practice-based perspectives. As such, it is a volume not only for students and researchers from a range of disciplines interested in museum, gallery and heritage studies, including public archaeology and cultural resource management (CRM), but also the wide range of professionals and volunteers in the museum and heritage sector who work with archaeological collections.

The volume's balance of theory and practice and its thematic and geographical breadth is explored and explained in an

extended introduction, which situates the readings in the context of the extensive literature on museum archaeology, highlighting the many tensions that exist between idealistic 'principles' and real-life 'practice' and the debates that surround these. In addition to this, section introductions and the seminal pieces themselves provide a comprehensive and contextualised resource on the interplay of museums and archaeology.

## **9. Preservation of Archaeological Remains In Situ**

Edited by Chris Caple

May 2016, 524 pages, Hardcover (Routledge)

ISBN 9780415832533 **¥35,230**

Preservation of Archaeological Remains In-Situ: A Reader reveals to the heritage practitioner (archaeologist, conservator, inspector of ancient monuments, conservation officer) and archaeology and heritage student, the issues surrounding the preservation of archaeological remains in-situ. Offering contemporary and classic readings, it provides professionals and students alike with a strong understanding of contemporary preservation practice. The book illustrates the wide variety of threats to in-situ archaeological remains, develops the concept of a holistic appreciation of the threats, and appreciates the need to prioritise the appropriate forms of response and to developing appropriation mitigation strategies. Using a careful balance of sources, some technical, some theoretical, some practical as well as case studies to explore the threats and their mitigation, it provides a holistic statement on preserving archaeological remains in-situ.

## **10. The Princeton Encyclopedia of Classical Sites**

(Princeton Legacy Library, Book 5121)

Edited by Richard Stillwell, William L. MacDonald & Marian Holland McAllister

March 2017, 1068 pages, Hardcover (Princeton U.P.) ISBN 9780691654201 **¥68,710**

Here are over 1,000 pages of authoritative information on the archaeology of Greek and Roman civilization. The sites discussed in the more than 2,800 entries are scattered from Britain to India and from the shores of the Black Sea to the coast of North Africa and up the Nile. They are located on sixteen area maps, keyed to the entries. The entries were written by 375 scholars from sixteen nations, many of whom have worked at the sites they describe. Until now our knowledge of the Classical period has been scattered in hundreds of sources dating from antiquity to our own times. This volume provides essential information on work accomplished, in progress, and still to be undertaken. Originally published in 1976.

The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

## **11. Raman Spectroscopy in Archaeology and Art History: Volume 2**

Edited by Peter Vandenabeele & Howell Edwards

Oct 2018, 330 pages, Hardcover (Royal Society of Chemistry) ISBN 9781788011389 **¥48,350**

Ten years after the first volume, this book highlights the

important contribution Raman spectroscopy makes as a non-destructive method for characterising the chemical composition of objects with archaeological and historical importance. The original book was ground-breaking in its concept, but the past ten years have seen some advancement into new areas, consolidation of some of the older ones and novel applications involving portable instrumentation, on site in museums and in the field.

This new volume maintains the topic at the cutting edge, the Editors have approached prominent contributors to provide case-studies sorted into themes. Starting with a Foreword from the British Museum Director of Scientific Research and an Introduction from the Editors, which offer general background information and theoretical context, the contributions then provide global perspectives on this powerful analytical tool.

Aimed at scientists involved in conservation, conservators and curators who want to better understand their collections at a material level and researchers of cultural heritage.

## 12 Raman Spectroscopy in Archaeology and Art History

Edited by Howell Edwards & John M Chalmers

May 2005 530 pages, Hardcover (Royal Society of Chemistry) ISBN 9780854045228 **¥35,230**

Raman Spectroscopy in Archaeology and Art History highlights the important contributions Raman spectroscopy makes as a non-destructive method for characterising the chemical composition and structure and in determining the provenance and authenticity of objects of archaeological and historical importance. It brings together studies from diverse areas and represents the first dedicated work on the use of this technique in this increasingly important field. Coverage includes: An Introduction to Raman Spectroscopy, including practical aspects of Raman spectroscopy and complementary techniques; Dyes and Pigments; Artefacts; Biological Materials and Degradation; Jewellery and Precious Stones. The book contains a broad selection of real-world examples in the form of case studies to provide the reader with a true appreciation of the procedures that need to be invoked to derive spectroscopic information from some of the most challenging specimens and systems. Colour illustrations of objects of investigation and a database of 72 Raman spectra of relevant minerals are included. With its extensive examples, Raman Spectroscopy in Archaeology and Art History will be of particular interest to specialists in the field, including researchers and scientific/conservation staff in museums. Academics will find it an invaluable reference to the use of Raman spectroscopy.

## 13. Wet Site Archaeology

By Barbara A. Purdy

Rprint of 1990 Edition.

Dec 2017, 352 pages, Hardback (CRC Press)

ISBN 9781315898650 **¥42,520**

~~£175.00~~ This volume, the result of an International Conference on Wet Site Archaeology funded by the National Endowment for the Humanities, explores the rewards and responsibilities of recovering unique assemblages from water-saturated deposits. Characteristics common to all archaeological wet sites are identified from Newfoundland to Chile, Polynesia to Florida, and from the Late Pleistocene to the Twentieth Century. Topics include innovative excavation and preservation methods; the need for adequate funding to preserve and analyze the abundant biological and cultural remains recovered only at archaeological wet sites; expanded knowledge of past environments, subsistence, technologies, artistic expressions, skeletal structure, and pathologies; the urgency to inform developers and governmental bodies about the invisible heritage entombed in wetlands that is often destroyed before it can be investigated; a formula for establishing priorities for excavating wet sites; and how to determine when enough of a wet site has been sampled. Many famous sites and discoveries are described in this volume, including Herculaneum, Hoko River, Hontoon Island, Key Marco, Monte Verde, Ozette, Somerset Levels, Windover, bog bodies of Northern Europe, and lake dwellers of Switzerland. Professional and amateur archaeologists, as well as anyone interested in archaeology or the significance of wet site archaeology will find this book fascinating.

  
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Fax 082-236-3530

[books@dear.ne.jp](mailto:books@dear.ne.jp)

福岡海外株

Tel 092-741-2685

Fax 092-741-8418

[fkaigai@lime.ocn.ne.jp](mailto:fkaigai@lime.ocn.ne.jp)