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Geological Methods for Archaeology

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NORMAN HERZ and ERVAN G. GARRISON. 1998. Oxford University Press, England. vii + 343 pp., 99 figures, 42 tables, notes, index. \$75.00 (cloth).

Reviewed by Jill Onken, Applied EarthWorks, Inc., Hemet, California.

In their foreword, Norman Herz and Ervan Garrison point out that the scope of most geoarchaeology books has been limited to sediments, soils, and geomorphology. In this book, they seek to provide archaeologists with a more comprehensive summary of geological techniques that have been successfully applied to archaeological problems. Following a brief introductory chapter, the authors divide the remainder of the book into four parts: "The Archaeological Site and Its Environment," "Dating Techniques," "Site Exploration," and "Artifact Analysis."

The first section contains two chapters. Chapter 2 focuses on geomorphology and stresses the importance of using geomorphological methods to reconstruct past landscapes, decipher site formation processes, and preserve archaeological sites threatened by erosion or weathering processes. Chapter 3 covers pertinent aspects of sedimentology and pedology. Also discussed are paleoclimate indicators found in soils and sediments, including pollen, plant macrofossils, and phytoliths.

The four chapters of section 2 present a plethora of dating techniques presently available to archaeologists. These methods are separated into four groups, with a chapter devoted to each. Chapter 4 covers chemical methods including F-U-N (Fluorine, Uranium, and Nitrogen) tests, amino acid dating, cation-ratio (rock varnish) dating, and obsidian hydration dating. Chapter 5 is devoted to radioactive methods including uranium dating, potassium-argon dating, and argon-argon dating. Fission-track dating, alpha-recoil track dating, thermoluminescence dating, electron spin resonance dating, radiocarbon dating, and chlorine-36 dating are addressed in chapter 6, which covers radiation damage, cosmogenic, and atom-counting methods. And finally, chapter 7 presents several miscellaneous techniques including dendrochronology, archaeomagnetic dating, and tephrochronology.

The third section (Site Exploration) consists of two chapters. Chapter 8 covers geophysical methods including seismic, electromagnetic, magnetic, ground-penetrating radar, microgravity, thermography, and magnetic susceptibility techniques. Chapter 9 describes phosphate analysis as a survey tool to locate and delimit (both laterally and horizontally) areas of past human activity.

Section 4 (Artifact Analysis) contains five chapters. Chapter 10 provides an introduction to rocks and minerals and emphasizes the necessity and utility of accurate identification of lithic raw materials. Chapter 11 presents a wide variety of instrumental analytical techniques (e.g., neutron activation analysis, X-ray diffraction, X-ray fluorescence, electron microprobe, etc.) that can determine the chemical signatures of artifacts so that raw material sources can be inferred. Chapter 12 discusses analytical methods useful in metallurgy technology studies. Geochemical and petrographic analysis techniques applicable to ceramic studies are covered in chapter 13. The section concludes (chapter 14) with a discussion of how various stable isotope ratios can be utilized in reconstructing paleoclimate and paleodiet and in sourcing marble, obsidian, gypsum, and lead.

Despite their acknowledgment that most archaeologists (the intended audience) have limited backgrounds in the physical sciences, Herz and Garrison's discussions of many techniques are larded with undefined chemistry, physics jargon, and excessive formulas that make for tedious reading. Elegant, concise descriptions and explanations are rare, and the relevance of many techniques to archaeology is unclear, further hindering comprehension of much of the material presented.

A lack of attention to detail detracts from the book as a whole. Inaccurate definitions, especially of soil terms, are misleading. Many sections are poorly organized, with paragraphs comprised of choppy, loosely connected facts and ideas. Frequently, poorly constructed sentences required a reread. Headings are not always relevant to the prose that follows. Most of the figures are poorly reproduced, incompletely labeled, and are not always very relevant to the associated text, limiting their elucidative value.

Geological Methods For Archaeology

Norman Herz, Ervan G. Garrison



Geological Methods For Archaeology:

Geological Methods for Archaeology Norman Herz, Ervan G. Garrison, 1997-12-18 This book discusses the application of geological methods and theory to archaeology. Written as a survey text covering appropriate methods and techniques taken from geology, geophysics, geochemistry, and geochronology, it shows the student the practicality and importance of each technique used in solving archaeological problems. Specific techniques are illustrated by practical results obtained from the authors' use on archaeological digs. With an international geographical scope, the book draws on sites from both hemispheres, including the Franchthi Cave in Greece, St. Catherine's Island in the U.S., the Roman site of Drand in France, and Monte Verde, Chile. The authors also address applications in less traditional areas such as underwater, historical, industrial, and conservation archaeology.

Techniques in Archaeological Geology Erv Garrison, 2013-03-09 The archaeological geology of the Quaternary or the geological epoch during which humankind evolved is a scientific endeavor with much to offer in the fields of archaeology and palaeoanthropology. Earth science techniques offer diverse ways of characterizing the elements of past landscapes and archaeological facies. This book is a survey of techniques used in archaeological geology for the study of soils, sediments, rocks, and minerals. The techniques presented represent those most commonly used today. They are discussed in detail, and examples are provided in many cases to demonstrate their usefulness to archaeologists.

Techniques in Archaeological Geology Ervan Garrison, 2016-05-18 This 2nd edition is a survey-level review of key areas of archaeological geology, geoarchaeology. Principal subject areas include historical principles, archaeological and geomorphic surfaces, and landforms, types, sediments, and sediment analytic methods, archaeological stony materials, petrographic and mineralogic attributes, ceramic materials, mineralogic composition, and analytic methods, geochemical methods useful in archaeological geology, studies of materials commonly used, geochronological methods for archaeological geology, Contributions to paleoecology, paleoclimate, and ancient cultures, as well as multivariate ICP and EDX data, are now included.

Geological Methods for Archaeology Norman Herz, Ervan G. Garrison, 1998 Written as a survey text covering appropriate techniques and methods from geology, geophysics, geochemistry, and geochronology, this book shows the practicality and importance of techniques used in solving archaeological problems.

Geology for Archaeologists J.R.L. Allen, 2017-10-11 This short introduction aims to provide archaeologists of all backgrounds with a grounding in the principles, materials, and methods of geology. Each chapter ends with a short reading list, and many have selected case histories in illustration of the points made. Included is a glossary of technical terms.

Handbook of Archaeological Methods Herbert D. G. Maschner, Christopher Chippindale, 2005 The Handbook of Archaeological Methods comprises 37 articles by leading archaeologists on the key methods used by archaeologists in the field, in analysis, in theory building, and in managing cultural resources. The book is destined to become the key reference work for archaeologists and their advanced students on contemporary archaeological methods.

A Guide to Field Methods in Archaeology Robert Fleming Heizer, 1967 Earth Sciences and Archaeology

Paul Goldberg, Vance T. Holliday, C. Reid Ferring, 2013-11-11 Earth Sciences and Archaeology brings together contributions from an experienced group of archaeologists and geologists whose common objective is to present thorough and current reviews of the diverse ways in which methods from the earth sciences can contribute to archaeological research. Many areas of research are addressed here including artifact analysis and sourcing, landscape reconstruction and site formation analysis, soil micromorphology and geophysical exploration of buried sites. Archaeology has benefited from geological methods in many ways in recent decades. However, in the past ten to twenty years, this informal collaboration between geologists and archaeologists has grown into a formal integration of earth science and archaeology on a significant scale. This book allows the contributors to assess where we are in terms of interdisciplinary research, which approaches work best in specific situations, and where this collaborative approach should progress to in the future.

The Application of Quantitative Methods in Archaeology Robert Fleming Heizer, Sherburne Friend Cook, 1960 *Dating Methods in Archaeology* Joseph W. Michels, 1973 [A Syllabus for Geological Archaeology](#) John Warvelle Harbaugh, Thomas L. Jackson, 1978

Encyclopedia of Geoarchaeology Allan S. Gilbert, 2016-08-15 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. The Editor, Allan S. Gilbert, is Professor of Anthropology at Fordham University in the Bronx, New York. He holds a B.A. from Rutgers University, and his M.A., M.Phil., and Ph.D. were earned at Columbia University. His areas of research interest include the Near East, late prehistory, and early historic periods, as well as the Middle Atlantic region of the U.S. historical archaeology. His specializations are in archaeozoology of the Near East and geoarchaeology, especially mineralogy and compositional analysis.

of pottery and building materials Publications have covered a range of subjects including ancient pastoralism faunal quantification skeletal microanatomy brick geochemistry and two co edited volumes on the marine geology and geoarchaeology of the Black Sea basin Practices of Archaeological Stratigraphy Edward C. Harris,1993-04-13 Practices of Archaeological Stratigraphy brings together a number of examples which illustrate the development and use of the Harris Matrix in describing and interpreting archaeological sites This matrix the theory of which is described in two editions of the previous book by Harris Principles of Archaeological Stratigraphy made possible for the first time a simple diagrammatic representation of the stratigraphic sequence of a site no matter how complex The Harris Matrix by showing in one diagram all three linear dimensions plus time represents a quantum leap over the older methods which relied on sample sections only In this book 17 essays present a sample of new work demonstrating the strengths and uses of the Harris Matrix the first ever published collection of papers devoted solely to stratigraphy in archaeology The crucial relationships between the Harris methods open area excavation techniques the interpretation of interfaces and the use of single context plans and recording sheets is clarified by reference to specific sites These sites range from medieval Europe through Mayan civilizations to Colonial Williamsburg Virginia This book will be of great value to all those involved in excavating and recording archaeological sites and should help to ensure that the maximum amount of stratigraphic information can be gathered from future investigations *Thermoluminescence Dating in Archaeology and Geology in Finland* Högne Jungner,1987

Geoarchaeology A. M. Pollard,1999 Geology and archaeology have a long history of fruitful collaborations stretching back to the early 19th century Geoarchaeology the application of the geosciences to solve research problems in archaeology has now emerged as a recognised sub discipline of archaeology especially in the United States traditionally the methods used include geomorphology sedimentology pedology and stratigraphy reflecting the fact that most archaeological evidence is recovered from the sedimentary environment as reflected in the sub title this volume embraces a broader definition including geophysics and geochemistry **Digital Geoarchaeology** Christoph Siart,Markus Forbriger,Olaf Bubenzer,2017-12-03 This book focusses on new technologies and multi method research designs in the field of modern archaeology which increasingly crosses academic boundaries to investigate past human environmental relationships and to reconstruct palaeolandscapes It aims at establishing the concept of Digital Geoarchaeology as a novel approach of interdisciplinary collaboration situated at the scientific interface between classical studies geosciences and computer sciences Among others the book includes topics such as geographic information systems spatiotemporal analysis remote sensing applications laser scanning digital elevation models geophysical prospecting data fusion and 3D visualisation categorized in four major sections Each section is introduced by a general thematic overview and followed by case studies which vividly illustrate the broad spectrum of potential applications and new research designs Mutual fields of work and common technologies are identified and discussed from different scholarly perspectives By stimulating knowledge transfer and fostering interdisciplinary collaboration Digital

Geoarchaeology helps generate valuable synergies and contributes to a better understanding of ancient landscapes along with their forming processes Chapters 1 2 6 8 and 14 are published open access under a CC BY 4 0 license at link springer com

Method and Theory for Investigating the Peopling of the Americas Robson Bonnichsen,D. Gentry Steele,1994 The first of four volumes to come out of the first World Summit Conference on the peopling of the Americas this includes sections on methods geoarchaeology biological approaches linguistic approaches and material culture Geophysical Data in Archaeology Armin Schmidt,2013-03-07 Anyone who has tried to archive archaeological geophysics data will have wondered what might be the most comprehensive and practical approach This question is addressed by this Guide s extensively revised 2nd edition which systematically explores what should be included in an Archive illustrated with relevant examples A conceptual framework is developed that allows assembling data and meta data so that they can be deposited with an Archiving Body This framework is also mapped onto typical database structures including OASIS and the English Heritage Geophysics Database Examples show step by step how an Archive can be compiled for deposition so that readers will be able to enhance their own archiving practice Geophysical data are sometimes the only remaining record of buried archaeological features when these are destroyed during commercial developments e g road schemes To preserve them in an Archive can therefore be essential However it is important that data are made available in formats that can still be read in years to come accompanied by documentation that gives meaningful archaeological context This Guide covers the creation of the necessary metadata and data documentation There is no point preserving data if they cannot be used again therefore this Guide is essential for anyone using geophysical data

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Table of Contents Geological Methods For Archaeology

1. Understanding the eBook Geological Methods For Archaeology
 - The Rise of Digital Reading Geological Methods For Archaeology
 - Advantages of eBooks Over Traditional Books
2. Identifying Geological Methods For Archaeology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geological Methods For Archaeology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geological Methods For Archaeology
 - Personalized Recommendations
 - Geological Methods For Archaeology User Reviews and Ratings
 - Geological Methods For Archaeology and Bestseller Lists
5. Accessing Geological Methods For Archaeology Free and Paid eBooks
 - Geological Methods For Archaeology Public Domain eBooks
 - Geological Methods For Archaeology eBook Subscription Services
 - Geological Methods For Archaeology Budget-Friendly Options

6. Navigating Geological Methods For Archaeology eBook Formats
 - ePub, PDF, MOBI, and More
 - Geological Methods For Archaeology Compatibility with Devices
 - Geological Methods For Archaeology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geological Methods For Archaeology
 - Highlighting and Note-Taking Geological Methods For Archaeology
 - Interactive Elements Geological Methods For Archaeology
8. Staying Engaged with Geological Methods For Archaeology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geological Methods For Archaeology
9. Balancing eBooks and Physical Books Geological Methods For Archaeology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geological Methods For Archaeology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Geological Methods For Archaeology
 - Setting Reading Goals Geological Methods For Archaeology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geological Methods For Archaeology
 - Fact-Checking eBook Content of Geological Methods For Archaeology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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