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"This important new methodologically-oriented work represents a major step forward in the expanding field of traceological studies. . . . The text is exceptionally well written and documented. Schematic artifacts line drawings . . . clearly indicate different use zones on edges and are preceded by a coded use-type key. The 280 x photomicrographs in section III are exceptional."—American Antiquity "Vaughan's monograph provides a thorough treatment of the high-power microscopic approach to lithic use-wear analysis and will contribute to the resolution of this issue. . . . An excellent introduction to the subject."—North American Arcaeologist

Use-wear Analysis of Flaked Stone Tools
Patrick C. Vaughan 1985 
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Establishing Potential Site Functions Through Use-wear Analysis of Flaked Stone Tools
Matthew R. Swihart 2016

Use-wear Analysis on Quartzite Flaked Tools
Antonella Pedergnana
Quartzite is a particularly frequently used lithology for knapping stone tools throughout all stages of human evolution. Despite this, however, there is a surprising lack of detailed methodological research on the formation and appearance of use-wear on this type of rock. As such, this book fills in a gap in the research, and proposes a new method to analyse use-wear on quartzite, by evaluating the variability of use-wear appearance on different rock varieties. This book is conceived as a handbook for the application of microwear analysis on quartzite, and is addressed to both students and lithic use-wear analysists. The extreme surface irregularities of quartzite, mainly due to its microcrystalline structure and the diverse orientation of quartz crystals surfaces, have always been regarded as a major obstacle when applying use-wear analysis. As shown here, the use of scanning electron microscopy allows this and other obstacles when observing highly reflective surfaces, such as quartzite, to be overcome.
**Stone Tools in the Paleolithic and Neolithic Near East**-John J. Shea 2013-02-28 This book surveys the archaeological record for stone tools from the earliest times to 6,500 years ago in the Near East.

**Understanding Stone Tools and Archaeological Sites**-Brian Patrick Kooyman 2000 This book introduces the hands-on analysis of North American stone tools and prehistoric stone tool technology. It considers the types of tools, the materials from which they were crafted, and the methods by which they were produced. One chapter is devoted to the stone tools cultural history of the northern plains. Included are numerous illustrations and examples from previous fieldwork. Kooyman teaches archaeology at the University of Calgary. Annotation copyrighted by Book News, Inc., Portland, OR.

**Ground Stone Analysis**-Jenny L. Adams 2014-01-31 An updated edition of the essential reference for the study of ground stone artifacts

**Use-Wear and Residue Analysis in Archaeology**-João Manuel Marreiros 2014-11-06 This book is designed to act as a readily accessible guide to different methods and techniques of use-wear and residue analysis and therefore includes a wide range of different and complementary essential topics: experimental tests, observation and record methods and techniques and the interpretation of a diversity of tool types and worked raw materials. The onset of use-wear studies was marked by the development of theory, method and techniques in order to infer prehistoric tools functionality and, therefore, understand human technological, social and cultural behavior. The last decade of functional studies, use-wear and residue analysis have been aimed at the observation, recording and interpretation of different activities and worked materials found on archaeological tools made on different types of organic and non-organic materials. This international group of contributions will be fundamental for all researchers and students of the discipline.

**Lithic Analysis**-George H. Odell 2012-12-06 This practical volume does not intend to replace a mentor, but acts as a readily accessible guide to the basic tools of lithic analysis. The book was awarded the 2005 SAA Award for Excellence in Archaeological Analysis. Some focuses of the manual include: history of stone tool research; procurement, manufacture and function; assemblage variability. It is an incomparable source for academic archaeologists, cultural resource and heritage management archaeologists, government heritage agencies, and upper-level undergraduate and graduate students of archaeology focused on the prehistoric period.

**Ground Stone Analysis**-Jenny L. Adams 2002 Archaeologists Refer to Stone artifacts that are altered or used to alter other items through abrasion, pecking, or polishing as “ground stone.” This includes mortars and pestles used to process vegetal materials, pigments, clays, and temper; abraders, polishing stones, and hammerstones for manufacturing other artifacts; and artifacts shaped by abrasion or pecking, such as axes, pipes, figurines, ornaments, and architectural pieces. Because there is a fuzzy set between flaked and ground stone artifacts, some analysts state that ground stone includes any stone item not considered flaked. This manual presents a flexible yet structured method for analyzing stone artifacts and classifying them in meaningful categories. The analysis techniques record important attributes based on design, manufacture, and use. Part I contains discussions on determining function, classification, attributes of grinding technology, use-wear analysis, modeling tool use, utilization of ethnographic and experimental resources, and research suggestions. Part II contains definitions and descriptions of artifact types. Here the author also seeks to unravel the knot that has developed around conflicting application of terms. Ground Stone Analysis will be a significant reference for any archaeological fieldworker or student who encounters such artifacts.

**Use Wear Analysis on Bone and Antler Tools of the Mackenzie Inuit**-Genevieve M. LeMoine 1997 A study of the traces of use and manufacture of bone by the Inuit from the
Mackenzie Delta in the western Arctic. LeMoine describes the methodology very thoroughly, including experiments that were carried out to reproduce aspects of bone use, and then presents the results of analysis of the evidence from several sites and discusses manufacturing techniques. There is also a catalogue and plates showing markings on the bone.

Prehistoric Stone Tools of Eastern Africa-John Shea 2020-04-30 A detailed overview of the Eastern African stone tools that make up the world’s longest archaeological record.

Actas del Noveno Congreso Internacional para el Estudio de las Culturas Pre-Colombinas de las Antillas Menores-Louis Allaire 1983

International Conference on Use-Wear Analysis-João Marreiros 2015-01-12 The significance of use-wear studies in archaeological research plays an important role as a proxy to prehistoric techno-cultural reconstruction. The present volume, divided into five thematic sections, includes chapters discussing various different research methods, techniques, chronologies and regions. As such, this volume will be of interest to both archaeologists and anthropologists.

Works in Stone-Michael Joseph Shott 2015 A cross-section of recent research in lithic analysis, demonstrating the wide range of theoretical approaches found in this field

The Roots of Use-wear Analysis-Sergej Aristarhovič Semenov 2005

A Record in Stone-Simon Holdaway 2004 Book & CD-ROM. This is a comprehensive investigation into the different ways in which archaeologists use flaked stone artefacts as a basis for reconstructing the distant human past. The authors not only describe the range of flaked stone artefact forms recovered from Australian archaeological sites, but also place Australian studies alongside the major international theories surrounding the description of stone artefacts. The book features: extensive analysis, clear and succinct definitions of technical terms and extensive use of illustrations; worked examples illustrating how collections of flakes, cores and rolls are analysed and interpreted; over 130 black-and-white labelled images of actual artefacts; an accompanying CD-ROM featuring over 450 colour images of artefacts; an up-to-date review of key theoretical approaches to flaked stone artefact analysis; an assessment of this historical development of Australian stone artefact studies; Australian perspective on the major international theoretical debates in the often controversial area of stone artefact studies.

The Interpretative Possibilities of Microwear Studies-Bo Gräslund 1990

Stone Tool Traditions in the Contact Era-Charles Cobb 2003-09-10 A comprehensive analysis of the partial replacement of flaked stone and ground stone traditions by metal tools in the Americas during the Contact Era and explores the impact of European colonization on Native American and Pacific Islander technology and culture.

Chipped Stone Tool Use in the Maya Coastal Economies of Marco Gonzalez and San Pedro, Ambergris Caye, Belize-William James Stemp 2001 A highly detailed analysis of stone tools recovered from excavations at two sites on the coral island of Ambergris Caye, off the coast of Belize, which revealed evidence of continued occupation on the island from c.100 BC until well into the Historic period. The study of the wear of tools provides a clear picture of the ways in which the Maya exploited the island’s natural resources, notably fish, shell, coral and salt, while comparison of the sites shows the level of interaction between communities. Sections present a tool typology and discuss lithic technology, raw materials and the archaeological context and distribution of the assemblages.

Experimental Determination of Stone Tool Uses-Lawrence H. Keeley 1980-03-15 A major problem confronting archeologists is how to determine the function of ancient stone tools. In this important work, Lawrence H. Keeley reports on his own highly successful course of research into the uses of British Paleolithic flint implements. His principal method of
investigation, known as "microwear analysis," was the microscopic examination of traces of use left on flint implements in the form of polishes, striations, and breakage patterns. The most important discovery arising from Keeley’s research was that, at magnifications of 100x to 400x, there was a high correlation between the detailed appearance of microwear polishes formed on tool edges and the general category of material worked by that edge. For example, different and distinctive types of microwear polish were formed during use on wood, bone, hide, meat, and soft plant material. These correlations between microwear polish and worked material were independent of the method of use (cutting, sawing, scraping, and so on). In combining evidence of polish type with other traces of use, Keeley was able to make precise reconstructions of tool functions. This book includes the results of a "blind test" of Keeley's functional interpretations which revealed remarkable agreement between the actual and inferred use of the tools tested. Keeley applied his method of microwear analysis to artifacts from three excavation sites in Britain—Clacton-on-the-sea, Swanscombe, and Hoxne. His research suggests new hypotheses concerning such Paleolithic problems as inter-assemblage variability, the function of Acheulean hand axes, sidescrapers, and chopper-cores and points the way to future research in Stone Age studies.

Teach Yourself Microwear Analysis-Roger Grace 1988

The Human Occupation of the Southern Central Pyrenees in the Sixth-Third Millennia Cal BC-Niccolò Mazzucco 2018 "This book presents an updated overview of the human occupation process of the Southern Central Pyrenees during the Neolithic. Data obtained from the analysis of the lithic assemblages from four sites (Cueva Chaves, Esplugà de la Puyascada, Cova de Els Trocs, Cova del Sardo) located at different altitudes (600-1800 m a.s.l.) are presented. Integrating the study of the lithic raw-material provenance with technological and use-wear analysis of the flaked stone tools, this book provides insights into the economic and mobility patterns of the first Neolithic settlers. The data obtained allow discussion of the occupation dynamics of the mountainous areas and the development of the first agricultural and herding practices between the Early and the Late Neolithic (6th-3rd millennia cal BC)."--Back cover.

Early Paleoindian Economies of Eastern North America-Kenneth B. Tankersley 1990

Prehistory in West Prescott, Arizona-Richard A. Anduze 2003 Excavations at seven sites in West Prescott, Arizona, provide new information on a poorly understood group. The results suggest a "pit house-figurine" population of the Prescott Culture who reinforced social identity through production of ceramic figurines in human and animal forms. Evidence indicates use of a range of local wild resources including large game, cultivation of maize and other domesticated plants, and trade in marine shell, Hohokam ceramics, and at least some of the Prescott Gray Ware pottery that is associated with this culture.

Use Wear Analysis and Obsidian-Linda M. Hurcombe 1992-01 This volume investigates a technique for the functional analysis of obsidian tools and a small archaeological case study: the lunates from the Bronze Age Sardinian site of Ortu Comidu is examined using the technique and approach. It reviews the current state of flint use wear studies and applies the theories generated there to obsidian. The experimental programme shows the potential success of the technique, which can allow the use action and use material to be interpreted, and demonstrates the limitations. Residues play an important role as they are more easily seen on obsidian than flint. The discussion includes an assessment of wear formation theories and the role of functional information within archaeology. The technique and approach is brought to bear on a small archaeological case study: the lunates from the Bronze Age Sardinian site of Ortu Comidu.

Flint in Focus-Annelou L. van Gijn 2010 The biographies of flint objects reveal their various and changing roles in prehistoric life. Using raw material sourcing, technological analysis, experimental archaeology, microwear and residue studies the author tells the story of flint from the Early Neolithic to its virtual demise in the Late Bronze and Early Iron Age, incorporating data from settlements, burials and
hoards from the region of the present-day Netherlands. This richly illustrated book shows the way flint functioned in daily life, how simple domestic tools became ritualized, how flint was used to negotiate change and how the biography of flint objects was related to personhood.

Stories in Stone-Nick Ashton 1994

Avonlea Yesterday and Today-Plains Anthropological Society 1988

Upland Adaptations in Lower Glen Canyon During the Archaic and Pueblo Periods-Paul F. Reed 1992

Rockshelter Excavations in the East Hamersley Range, Pilbara Region, Western Australia-Dawn Cropper 2018-08-13 This volume offers a detailed study of six exceptional rockshelter sites from the inland Pilbara Region of Western Australia. Consisting of 18 chapters, it is rich with colour photographs, illustrations, and figures, including high-resolution images of the rockshelter sites, excavations, stratigraphic sections, cultural features, and artefacts.

Stone Tools and Mobility in the Illinois Valley-George H. Odell 1996 A detailed comparative analysis of standardized lithic data from 10 Illinois Valley components spanning 7500 years from the Early Archaic through the Mississippian is presented in this volume—perhaps the first time that such a comprehensive set of lithic variables has been analyzed for the entire Holocene of a region. A major part of this study constitutes the most extensive application of low-power lithic use-wear analysis to be found in the literature, accompanied by full discussion of the technique and a suite of new experimental data. The results provide significant information on prehistoric mobility and technological organization in mid-continental North America, revealing clearly for the first time a number of significant behavioral trends.

Journal of Field Archaeology-Association for Field Archaeology 1997

Journal of New World Archaeology-1990

Archaeometry 94-Şahinde Demirci 1996

Archaeology in Oceania-1990

Patterns of Tool Use-Kjel Knutsson 1988

Method and Theory for Investigating the Peopling of the Americas-Robson Bonnichsen 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.

Interpreting the Function of Stone Tools-Roger Grace 1989

Encyclopedia of Human Evolution and Prehistory-Eric Delson 2004-11-23 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 libraries." --Booklist/RBB