

# PHILON & HERON

## *Artillery and Siegecraft in Antiquity*

GREEK TEXT, TRANSLATION and NOTES  
BY  
JAMES G. DeVOTO



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# Philon And Heron Artillery And Siegecraft In Antiquity

**Eric William Marsden**



## **Philon And Heron Artillery And Siegecraft In Antiquity:**

*Philon and Heron* James G. DeVoto, 1996-01-01      *The Mechanical Hypothesis in Ancient Greek Natural Philosophy*  
Sylvia Berryman, 2009-08-06 It has long been thought that the ancient Greeks did not take mechanics seriously as part of the workings of nature and that therefore their natural philosophy was both primitive and marginal In this book Sylvia Berryman challenges that assumption arguing that the idea that the world works like a machine can be found in ancient Greek thought predating the early modern philosophy with which it is most closely associated Her discussion ranges over topics including balancing and equilibrium lifting water sphere making and models of the heavens and ancient Greek pneumatic theory with detailed analysis of thinkers such as Aristotle Archimedes and Hero of Alexandria Her book shows scholars of ancient Greek philosophy why it is necessary to pay attention to mechanics and shows historians of science why the differences between ancient and modern reactions to mechanics are not as great as was generally thought      **A Roman Miscellany** Hans Michael Schellenberg, Vera-Elisabeth Hirschmann, 2008 Anthony R Birley a leading authority in the field of Roman prosopography and well known for his biographies of the emperors Hadrian Marcus Aurelius and Septimius Severus was Professor of Ancient History at the University of Manchester from 1974 1990 and at the Heinrich Heine University Duesseldorf from 1990 until retirement in 2002 Friends colleagues and pupils have offered him A Roman Miscellany on a rich variety of topics relating to the Roman Empire a Festschrift for an outstanding scholar Eight contributions are in English one an excerpt from a historical novel is in French the rest are in German The book is edited by Birleys last three Duesseldorf pupils After a short introduction by Hirschmann and Kriekhaus Statt eines Vorwortes and a Postscript by Birley himself there follow the contributions by Bruno Bleckmann Kritische Passagen zu Konstantin in der Vita Constantini des Eusebios Lukas de Blois Soldiers and Leaders in Plutarchs Galba and Otho Hannah M Cotton In Lieu of an Article Reflexions on Hadrian Antiochus Epiphanes and the Jews Werner Eck and Andreas Pangerl Neue Diplome fuer die Hilfstruppen von Britannia Mark Hassall Footnotes to The Fasti Vera E Hirschmann Die phrygische Opposition Zu Novatianern und Montanisten im westlichen Kleinasien Peter Lampe Paulinos Mystes David Mattingly Urbanism epigraphy and identity in the towns of Britain under Roman Rule Fran ois Paschoud Sulpicii Alexandri ex agente in rebus De uita sua Olli Salomies Choosing a Cognomen in Rome Some Aspects Hans M Schellenberg Anmerkungen zu Heron von Alexandria und seinem Werk ueber den Geschuetzbau Stefan Sommer Vereinigungen in Tarsos Richard Talbert A Forgotten Masterpiece of Cartography for Roman Historians Pierre Lapiès Orbis Romanus ad Illustranda Itineraria 1845 Konrad V ssing Sallust und das Massaker von Cirta 112 v Chr Sall Iug 26 Klaus Wachtel Fragment einer Bauinschrift aus Sexaginta Prista Moesia inferior Everett L Wheeler Pullarii Marsi Haruspices and Sacerdotes in the Roman Imperial Army David Whitehead Apollodorus Poliorketika Author Date Dedicatee Ruprecht Ziegler Zur Muenzmission in Anemurion Kilikien unter Kaiser Maximinus Thrax Hans M Schellenberg Danksagungen mit einer Anmerkung zum Vorhandensein der Vielzahl pers nlicher

Fotografien und Birleys Bibliography from 1961 to 2007 The CD Rom included with the book contains maps illustrating Talberts paper

**Military Literature in the Medieval Roman World and Beyond**, 2024-05-21 What do the mysterious Roman author Vegetius the Byzantine emperor Leo VI and the Chinese general Li Jing all have in common They are three of the dozens of authors across the medieval Mediterranean world and beyond who wrote works of military literature sometimes called military handbooks manuals or treatises This book brings together a multidisciplinary international team of scholars who present cutting edge essays on diverse aspects of medieval military literature While some chapters offer novel approaches to familiar authors like Vegetius some present research on under valued topics like Byzantine military illustrations and others provide holistic studies on subjects like early modern treatises they all move the discussion of medieval military literature forward Contributors are Michael B Charles Georgios Chatzelis Pierre Cosme Maxime Emion Immacolata Eramo Michael Fulton David Graff John Haldon Catharine Hof John Hosler Savvas Kyriakidis ukasz R ycki Katharina Schoneveld Georgios Theotokis Conor Whately Michael Whitby and Nadya Williams

**The Oxford Dictionary of Late Antiquity** Oliver Nicholson, 2018-04-19 The Oxford Dictionary of Late Antiquity is the first comprehensive reference book covering every aspect of history culture religion and life in Europe the Mediterranean and the Near East including the Persian Empire and Central Asia between the mid 3rd and the mid 8th centuries AD the era now generally known as Late Antiquity This period saw the re establishment of the Roman Empire its conversion to Christianity and its replacement in the West by Germanic kingdoms the continuing Roman Empire in the Eastern Mediterranean the Persian Sassanian Empire and the rise of Islam Consisting of over 1 5 million words in more than 5 000 A Z entries and written by more than 400 contributors it is the long awaited middle volume of a series bridging a significant period of history between those covered by the acclaimed Oxford Classical Dictionary and The Oxford Dictionary of the Middle Ages The scope of the Dictionary is broad and multi disciplinary across the wide geographical span covered from Western Europe and the Mediterranean as far as the Near East and Central Asia it provides succinct and pertinent information on political history law and administration military history religion and philosophy education social and economic history material culture art and architecture science literature and many other areas Drawing on the latest scholarship and with a formidable international team of advisers and contributors The Oxford Dictionary of Late Antiquity aims to establish itself as the essential reference companion to a period that is attracting increasing attention from scholars and students worldwide

Handbuch der griechischen Literatur der Antike Bd. 2: Die Literatur der klassischen und hellenistischen Zeit Bernhard Zimmermann, Antonios Rengakos, 2014-11-17 Der zweite Band des Handbuchs der griechischen Literatur der Antike umfa t die Periode von 400 v Chr bis zur Zeitenwende Er schlie t in zweifacher Hinsicht eine wichtige L cke im Handbuch der Altertumswissenschaften Zum einen ist jener Band von Wilhelm Schmids und Otto St hlins Geschichte der griechischen Literatur der die Literatur des gr ten Teils des 4 Jahrhunderts v Chr Platon Aristoteles die klassische Rhetorik sowie die Geschichtsschreibung nach Thukydides und die

Mittlere Kom die enthalten sollte nie erschienen und zum anderen ist Band VII 2 1 der mit 320 v Chr einsetzt in vielerlei Hinsicht berholt Zahlreiche Papyrusfunde aus dem Sand gyptens haben zudem in den letzten 100 Jahren das Bild dieser Epoche entscheidend bereichert Kom dien Menanders gro e Bruchst cke aus den Werken des Kallimachos oder auch erst vor kurzem Poseidipps Epigramme Au erdem hat in der Forschung eine neue methodisch und theoretisch begr ndete Betrachtung weiter Bereiche der Literatur nach 400 v Chr stattgefunden Dies betrifft vor allem die hellenistische Dichtung und die Kom die nach Aristophanes die auf der Basis neuer Ausgaben nun erst in ihrer Stellung in der Geschichte der griechischen Literatur angemessen gew rdigt werden k nnen Die Neubewertung kommt insbesondere der Fachliteratur zugute die in diesem Band in einem umfassenden Kapitel in all ihren verschiedenen Aspekten dargestellt wird Wie Band 1 des Handbuchs der griechischen Literatur ist auch Band 2 nach Gattungen und literarischen Formen gegliedert **Ancient Warfare** Geoff Lee, Helene Whittaker, Graham Wrightson, 2015-09-10 This volume provides chapters on current research into ancient warfare It is a collection with a wide range covering a long chronological spread with many historical themes including some that have recently been rather neglected It has wide academic relevance to a number of on going debates on themes in ancient warfare Each topic covered is coherently presented and offers convincing coverage of the subject area There is a high standard of scholarship and presentation chapters are well documented with extensive bibliographies It is readable and successful in engaging the reader s attention and presents subject matter in an accessible way The book will particularly appeal to professional historians students and a wider audience of those interested in ancient warfare

**American Book Publishing Record** , 1997 L'esercito romano Giuseppe Cascarino, 2007 **Physik/Mechanik** Astrid Schürmann, 2005 Die neuen Entwicklungen in der Wissenschaftsgeschichte der letzten 20 Jahre sind inzwischen auch fuer die Untersuchung der antiken Wissenschaften fruchtbar gemacht worden Der Sammelband stellt dies anhand der Physik dar die als moderne Wissenschaft zwei zentrale Wissensgebiete der antiken Philosophie sowie der angewandten mathematischen Wissenschaften vereint die antike Naturwissenschaft und die Fachdisziplin der Mechanik Die Autoren und Autorinnen zeigen in ihren Beitr gen da gerade das Verh ltnis von eher theoretischer Wissenschaft und angewandter Praxis ein besonders spannendes ist Als Brueckenkopf zwischen beiden Bereichen wird hier die antike Umweltforschung pr sentiert Die Texte wenden sich neben dem Fachpublikum besonders an interessierte aufgeschlossene LeserInnen anderer Interessensgebiete die sich einen Eindruck der neuesten Forschungen verschaffen m chten und sind daher allgemein verst ndlich und nachvollziehbar geschrieben Mit Beitr gen von Astrid Schuermann Gottfried Heinemann Ren Kayser Helen S Lang Christian Pietsch Holger Sonnabend Burkhard Mei ner Hermann J Kienast Dennis L Simms Philippe Fleury Karin Tybjerg

**Encyclopedia of Ancient Greece** Nigel Wilson, 2013-10-31 Examining every aspect of the culture from antiquity to the founding of Constantinople in the early Byzantine era this thoroughly cross referenced and fully indexed work is written by an international group of scholars This Encyclopedia is derived from the more broadly focused Encyclopedia of Greece and

the Hellenic Tradition the highly praised two volume work Newly edited by Nigel Wilson this single volume reference provides a comprehensive and authoritative guide to the political cultural and social life of the people and to the places ideas periods and events that defined ancient Greece

*Roman Artillery* Alan Wilkins,2003 After examining the Greek origins of torsion powered catapults this book describes the machines used from the time of Caesar onwards their dominance in the warfare of the western world for over a thousand years and their importance in the history of technology

**Encyclopaedia Britannica** ,1929

*Greek and Roman Artillery* Eric William Marsden,1969 Defining a piece of artillery as a relatively complex engine powered by springs of resilient metal composed of several mechanical devices and designed to hurl bolts or shot over the longest possible range Marsden presents a comprehensive account of the development and historical employment of ancient artillery from its invention in 399 BC to the collapse of the Roman Empire in the West c AD 400 Among the many topics raised are the influence of the introduction of artillery on warfare the organization of artillery by states and monarchs the obtaining of artificers and the training of artillery men by ancient governments and the effects of artillery on the design of fortifications The work is based on the Greek and Latin texts describing the construction of catapults ballistae and other machines translated in Greek and Roman Artillery Technical Treatises

*Greek and Roman Artillery 399 BC-AD 363* Duncan B Campbell,2003-11-21 The catapult katapultikon was invented under the patronage of Dionysius I tyrant of Syracuse in the 4th century bc At first only the arrow firing variant was used and it was not until the reign of Alexander the Great that stone projecting catapults were introduced The Romans adopted these weapons during the Punic Wars and further developed them before introducing the new arrow firing ballista and stone throwing onager This title traces the often controversial design development and construction of these weapons throughout the history of the classical world

*Greek and Roman Siege Machinery 399 BC-AD 363* Duncan B Campbell,2003-06-20 Siege machinery first appeared in the West during the Carthaginian invasion of Sicily in the late 5th century BC in the form of siege towers and battering rams After a 50 year hiatus these weapons of war re appeared in the Macedonian armies of Philip II and Alexander the Great a period that saw the height of their development in the Ancient World The experience of warfare with both the Carthaginians during the later 3rd century BC and Philip V of Macedon during the early 2nd century BC finally prompted the introduction of the siege tower and the battering ram to the Roman arsenal This title traces the development and use of these weapons across the whole of this period

**Philo Mechanicus: "On Sieges"** David Whitehead,2016 Towards the end of the second century BCE Philo of Byzantium a k a Philo Mechanicus wrote what is held to be the first Engineering Compendium in eight or nine parts Three concern warfare viewed theoretically a technical treatise on catapult design *Belopoiika* and two associated ones which survive only in lengthy epitome United here under the title *On Sieges Paraskeuastika* and *Poliorketika* address broader aspects of siege warfare First and primarily withstanding a siege is the objective cities must design and build towers walls and gates in the most suitable way stockpile and manage food and other strategic commodities and resist

a direct assault by men and machines Then more briefly the perspective is reversed with those who wish to conduct such an attack shown how to do so successfully This is the work s first ever complete translation into English preceded by an Introduction on the writer and his work The Commentary the first since Garland s in 1972 aims to elucidate the multifarious matters arising issues of text translation vocabulary idiom themes in the poliorcetic genre archaeological and other substantive contexts     *Greek and Roman Artillery* Eric William Marsden,1999     **Greek and Roman Artillery** E.W. Marsden,1969

## **Philon And Heron Artillery And Siegecraft In Antiquity** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Philon And Heron Artillery And Siegecraft In Antiquity**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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