

QUARRYING IN ANTIQUITY TECHNOLOGY, TRADITION AND SOCIAL CHANGE

BY
J. B. WARD-PERKINS

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Quarrying in Antiquity Technology, Tradition and Social Change John Bryan Ward-Perkins, 1972 Technology in Transition A.D. 300-650 Luke Lavan, Enrico Zanini, Alexander Sarantis, 2008-03-31 This book is the first general work to be published on technology in Late Antiquity It seeks to survey aspects of the technology of the period and to respond to questions about technological continuity stagnation and decline The book opens with a comprehensive bibliographic essay that provides an overview of relevant literature The main section then explores technologies in agriculture production metal ceramics and glass engineering and building Papers draw on both archaeological and textual sources and on analogies with medieval and early modern technologies Reference is made not only to the periods which preceded it but to the transition to the Early Middle Ages and to the technological heritage of Late Antiquity to the Islamic world Several papers focus on Italy whilst others consider North Africa Asia Minor and the Near East **Ancient Building Technology, Vol. 2: Materials** G.R.H. Wright, 2023-03-20 This r sum study deals with building material which together with construction and structures forms one of the three aspects of building or equally one of the three factors which constitute the nature of a building Unlike existing manuals on ancient building this offers an analytic presentation and the subject matter extends across all ages and regions The treatment of materials is set out according to a paradigm of nature manufacture and use so as to facilitate direct comparison between different modes of the one material as also between different materials and between different building traditions This second part is published in two volumes the first containing texts the second more than 300 illustrations The print edition is available as a set of two volumes 9789004140073 **The Oxford Handbook of Engineering and Technology in the Classical World** John Peter Oleson, 2008-01-31 Nearly every aspect of daily life in the Mediterranean world and Europe during the florescence of the Greek and Roman cultures is relevant to the topics of engineering and technology This volume highlights both the accomplishments of the ancient societies and the remaining research problems and stimulates further progress in the history of ancient technology The subject matter of the book is the technological framework of the Greek and Roman cultures from ca 800 B C through ca A D 500 in the circum Mediterranean world and Northern Europe Each chapter discusses a technology or family of technologies from an analytical rather than descriptive point of view providing a critical summation of our present knowledge of the Greek and Roman accomplishments in the technology concerned and the evolution of their technical capabilities over the chronological period Each presentation reviews the issues and recent contributions and defines the capacities and accomplishments of the technology in the context of the society that used it the available technological shelf and the resources consumed These studies introduce and synthesize the results of excavation or specialized studies The chapters are organized in sections progressing from sources written and representational to primary e g mining metallurgy agriculture and secondary e g woodworking glass production food preparation textile production and leather working production to technologies of social organization and interaction e g

roads bridges ships harbors warfare and fortification and finally to studies of general social issues e.g. writing timekeeping measurement scientific instruments attitudes toward technology and innovation and the relevance of ethnographic methods to the study of classical technology The unrivalled breadth and depth of this volume make it the definitive reference work for students and academics across the spectrum of classical studies

Trade, Transport and Society in the Ancient World (Routledge Revivals) Onno Van Nijf, Fik Meijer, 2014-10-14 This book first published in 1992 presents an introduction to the nature of trade and transport in antiquity through a selection of translated literary papyrological epigraphical and legal sources These texts illustrate a range of aspects of ancient trade and transport from the role of the authorities to the status of traders to the capacity and speed of ancient ships It is clear that the actual means of transportation were crucial the book illustrates the limitations of ancient transport technology and the consequences for the development of commerce It focuses first on different aspects of transport over land and then on transport by river and concludes with a discussion of several aspects of ancient seafaring This book is ideal for students of ancient history

Environmental Problems of the Greeks and Romans Johnson Donald Hughes, 2014-02-15 How did ancient societies change the environment and how do their actions continue to affect us today In this dramatically revised and expanded second edition of the work entitled *Pan's Travail* J. Donald Hughes examines the environmental history of the classical period and argues that the decline of ancient civilizations resulted in part from their exploitation of the natural world Focusing on Greece and Rome as well as areas subject to their influences Hughes offers a detailed look at the impact of humans and their technologies on the ecology of the Mediterranean basin Evidence of deforestation in ancient Greece the remains of Roman aqueducts and mines and paintings on centuries old pottery that depict agricultural activities document ancient actions that resulted in detrimental consequences to the environment Hughes compares the ancient world's environmental problems to other persistent social problems and discusses attitudes toward nature expressed in Greek and Latin literature In addition to extensive revisions based on the latest research this new edition includes photographs from Hughes's worldwide excursions a new chapter on warfare and the environment and an updated bibliography

Classical Marble: Geochemistry, Technology, Trade N. Herz, Marc Waelkens, 2013-04-17 Marble in Ancient Greece and Rome Geology Quarries Commerce Artifacts Marble remains the *sine qua non* raw material of the ancient Greeks and Romans Beginning in the Bronze Age sculpture began in marble and throughout classical times the most important statues reliefs monuments and inscriptions were made of it Yet quarry sources changed in time as preferences for different marbles were influenced by local traditions the possibilities of transport esthetic tastes and economics Marble studies and the identification of the provenance of marble can thus reveal much about Greek and Roman history trade esthetics and technology Persons in many disciplines are studying various aspects of Greek and Roman marble usage Geologists and geochemists are working on methods to determine the provenance of marble archaeologists are noting changing patterns of import and use in excavation and discovering how improving quarrying

techniques and preliminary dressing of the extracted material influenced the final shape of artifacts ancient historians are now under standing quarry organization and bureaucracies that controlled marble production and trade art historians are seeing how physical characteristics of the stone affected the techniques and style of sculpture architects and engineers are interested in quarry technologies and usage in building construction These specialists drawn from many disciplines rarely have an opportunity to compare notes and see how each can contribute to the research effort of others

The Building of Renaissance Florence Richard A. Goldthwaite, 1982-10 Patrons The Guilds Strozzi family Succchielli family

Imperial Mines and Quarries in the Roman World Alfred Michael Hirt, 2010-03-25 The control over marble and metal resources was of major importance to the Roman Empire The emperor's freedmen and slaves officers and soldiers of the Roman army equestrian officials as well as convicts and free labour were seconded to mines and quarries throughout Rome's vast realm Alfred Hirt's comprehensive study defines the organizational outlines and the internal structures of the mining and quarrying ventures under imperial control The themes addressed include challenges faced by those in charge of these extractive operations the key figures their subaltern personnel and their respective responsibilities the role of the Roman army the use of civilian partners in quarrying or mining ventures and the position of the quarrying or mining organizations within the framework of the imperial administration

Ancient Greece and Rome Keith Hopwood, 1995 Sir Thomas Fairfax not Oliver Cromwell was creator and commander of Parliament's New Model Army from 1645 to 1650 Although Fairfax emerged as England's most successful commander of the 1640s this book challenges the orthodoxy that he was purely a military figure showing how he was not apolitical or disinterested in politics The book combines narrative and thematic approaches to explore the wider issues of popular allegiance puritan religion concepts of honour image reputation memory gender literature and Fairfax's relationship with Cromwell Black Tom delivers a groundbreaking examination of the transformative experience of the English revolution from the viewpoint of one of its leading yet most neglected participants It is the first modern academic study of Fairfax making it essential reading for university students as well as historians of the seventeenth century Its accessible style will appeal to a wider audience of those interested in the civil wars and interregnum more generally

The Architect Spiro Kostof, 2000 The Architect traces the role of the profession across the centuries and in different cultures showing the architect both as designer and as mediator between the client and the builder

A Greek City of the Fourth Century B.C. S. C. Bakhuizen, Goritsa Team, 1992

The Roman Empire Colin Michael Wells, 1995 This sweeping history of the Roman Empire from 44 BC to AD 235 has three purposes to describe what was happening in the central administration and in the entourage of the emperor to indicate how life went on in Italy and the provinces in the towns in the countryside and in the army camps and to show how these two different worlds impinged on each other Colin Wells's vivid account is now available in an up to date second edition

Ancient Stones Marc Waelkens, Norman Herz, Luc Moens, 1992 The meeting assembled an interdisciplinary group of nearly 50 archaeologists and art historians geologists and

geochemists from the U S A and 14 European and Near Eastern countries to discuss the provenance quarrying transport and use of stone from prehistoric to early Christian times both in Europe and in the Near East The papers which reflect a merger between classicism and geotechnology thus deal with 1 quarries from the Bronze Age to the Byzantine period their technology and organization 2 quarry prospection through satellite imaging 3 dressing of artifacts near the quarries 4 trade availability and archaeological use of certain stones in antiquity 5 determination of obsidian flint granite marble limestones sandstones and arkoses from Europe Asia Minor and the Near East by means of petrological and chemical analysis trace element analysis electron microprobe and stable isotope analysis ESR spectroscopy X ray fluorescence and X ray powder diffractometry mercury porosimetry cathodoluminescence light diffusion from laser irradiated stones computer assisted assessment of coloured stones or a multi method approach and 6 provenance determination applied to ancient artifacts The volume is highly recommended for those who wish to combine a journey into classical scholarship with geochemical sciences

Marble Past, Monumental Present Michael Greenhalgh, 2009 This survey and synthesis of the structural and decorative uses of Roman remains particularly marble throughout the mediaeval Mediterranean deals with the Christian West but also Byzantium and Islam each the inheritor of much Roman territory It includes a 5000 image DVD **Ancient Building Technology** George R. H. Wright, 2000 The following resume study deals with building material which together with construction and structures forms one of the three aspects of building or equally one of the three factors which constitute the nature of a building *The Archaeology of the Roman Economy* Kevin Greene, 1986 Kevin Greene shows how archaeology can help provide a more balanced view of the Roman economy by informing the classical historian about geographical areas and classes of society that received little attention from the largely aristocratic classical writers whose work survives *The Cambridge Ancient History* Alan K. Bowman, Peter Garnsey, Dominic Rathbone, 1982

Michelangelo's Mountain Eric Scigliano, 2007-11-01 Discover the fascinating crucial and often dangerous relationship between Michelangelo and the stone quarries of Carrara in this clear eyed and well researched exploration that recounts the artist's large life and lasting works with care and reverence Booklist No artist looms so large in Western consciousness and culture as Michelangelo Buonarroti the most celebrated sculptor of all time And no place on earth provides a stone so capable of simulating the warmth and vitality of human flesh and incarnating the genius of a Michelangelo as the statuario of Carrara the storied marble mecca at Tuscany's northwest corner It was there where shadowy Etruscans and Roman slaves once toiled that Michelangelo risked his life in dozens of harrowing expeditions to secure the precious stone for his Pietà Moses and other masterpieces Many books have recounted Michelangelo's achievements in Florence and Rome Michelangelo's Mountain goes beyond all of them revealing his escapades and ordeals in the spectacular landscape that was the third pole of his tumultuous career and the third wellspring of his art Eric Scigliano brings this haunting place and eternally fascinating artist to life in a sweeping tale peopled by popes and poets mad dukes and mythic monsters scheming courtiers and rough

hewn quarrymen He recounts the saga of the David the improbable masterpiece that Michelangelo created against all odds of the twin Hercules that he tried to erect beside it and of the Salieri like nemesis who snatched away the commission turning a sculptural testament to liberty into a bitter symbol of tyranny and giving Florence the colossus it loves to hate In showing how the artist land and stone transformed one another Scigliano brings fresh insight to Michelangelo s most cherished works and illuminates his struggles with the princes and potentates of Carrara Rome and Medici Florence who raised intrigue to a high art The Age of Liutprand Christopher Heath,2024-11-14 The Age of Liutprand provides a thematic analysis of Lombard Italy in the pivotal early part of the 8th century It surveys the crucial role and rule of Liutprand 712-44 the powerful and effective Lombard king By restoring this successful exemplar of Lombard kingship to the centre of events and developments in the Italian peninsula this book pulls together all the pertinent evidence for a new kingship in Lombard Italy that used a sophisticated set of strategies to enhance deepen and expand its effectiveness In presenting an evaluation of Italy on the cusp of dramatic change this book explains how not only the kingship of Liutprand but also his legal reforms and his relationships with the Church and neighbouring peoples all contributed to a model of kingship successfully and subsequently deployed by Charlemagne and his successors later in the 8th century

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