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Corrosion and Conservation of Cultural Heritage Metallic Artefacts P Dillmann 2013-07-31 The conservation of metallic archaeological and historic artefacts is a major challenge whether they are ancient bronzes or relics of our more recent industrial past. Based on the work of Working Party 21 Corrosion of Archaeological and Historical Artefacts within the European Federation of Corrosion (EFC), this important book summarises key recent research on analytical techniques, understanding corrosion processes and preventing the corrosion of cultural heritage metallic artefacts. After an introductory part on some of the key issues in this area, part two reviews the range of analytical techniques for measuring and analysing corrosion processes, including time resolved spectroelectrochemistry, voltammetry and laser induced breakdown spectroscopy. Part three reviews different types of corrosion processes for a range of artefacts, whilst part four discusses on-site monitoring techniques. The final part of the book summarises a range of conservation techniques and strategies to conserve cultural heritage metallic artefacts. Corrosion and conservation of cultural heritage metallic artefacts is an important reference for all those involved in archaeology and conservation, including governments, museums as well as those undertaking research in archaeology and corrosion science. Summarises key research on analytical techniques for measuring and analysing corrosion processes Provides detailed understanding of corrosion processes and corrosion prevention Discusses on-site monitoring techniques

Ships and maritime landscapes Jerzy Gawronski 2017-06-30 This volume gathers 88 contributions related to the theme 'Ships and Maritime Landscapes' of the Thirteenth International Symposium on Boat and Ship Archaeology (ISBSA 13) held in Amsterdam on the 7th to 12th October 2012. The articles include both papers and poster presentations by experts in the field of nautical archaeology, history of ships and shipbuilding, and naval architecture. The contributions deal not only with the theme of maritime landscapes but also with a variety of ship related subjects, like regional watercraft, construction and typology, material applications and design, outfitting, reconstruction and current research.

ANTIQUITY SUPPLEMENT 2001

Submerged Cultural Resource Management Society for Historical Archaeology Conference 2003-07-31 This vital book is a collection on the various ways archaeologists and resource managers have devised to make available and interpret submerged cultural resources for the public, such as underwater archaeological preserves, shipwreck trails, and land-based interpretive media and literature. The concept of preserves, parks, and trails has proven to be an effective and popular method of public education and heritage tourism with the end result being a greater public understanding of the value of preserving and protecting shipwrecks, and other submerged cultural resources, for the future. Within each contribution, the authors focus on: -legislation; -economic benefits; -interpretation methods; -problems and successes; -future directions regarding their preserve, park, or trail programs. Various approaches to the concept have been explored and this book is an effort to make available our experiences in the management of submerged cultural resources for the public. This volume is an invaluable resource to underwater archaeologists, cultural and heritage resource managers, museum and heritage educators and those studying these professions.

Manuel pratique pour les interventions sur le patrimoine culturel sous-marin 2013

LaQue's Handbook of Marine Corrosion David A. Shifler 2022-07-01 The new edition of LaQue's classic text on marine corrosion, providing fully updated control engineering practices and applications Extensively updated throughout, the second edition of La Que's Handbook of Marine Corrosion remains the standard single-source reference on the unique nature of seawater as a corrosive environment. Designed to help readers reduce operational and life cycle costs for materials in marine environments, this authoritative resource provides clear guidance on design, materials selection, and implementation of corrosion control engineering practices for materials in atmospheric, immersion, or wetted marine environments. Completely rewritten for the 21st century, this new edition reflects current environmental regulations, best practices, materials, and processes, with special emphasis placed on the engineering, behavior, and practical applications of materials. Divided into three parts, the book first explains the fundamentals of corrosion in marine environments, including atmospheric corrosion, erosion, microbiological corrosion, fatigue, environmental cracking, and cathodic delamination. The second part discusses corrosion control methods and materials selection that can mitigate or eliminate corrosion in different marine environments. The third section

provides the reader with specific applications of corrosion engineering to structures, systems, or components that exist in marine environments. This much-needed new edition: Presents a comprehensive and up-to-date account of the science and engineering aspects of marine corrosion Focuses on engineering aspects, descriptive behavior, and practical applications of materials usage in marine environments Addresses the various materials used in marine environments, including metals, polymers, alloys, coatings, and composites Incorporates current regulations, standards, and recommended practices of numerous organizations such as ASTM International, the US Navy, the American Bureau of Shipping, the International Organization for Standardization, and the International Maritime Organization Written in a clear and understandable style, La Que's Handbook of Marine Corrosion, Second Edition is an indispensable resource for engineers and materials scientists in disciplines spanning the naval, maritime, commercial, shipping industries, particularly corrosion engineers, ship designers, naval architects, marine engineers, oceanographers, and other professionals involved with products that operate in marine environments.

Maritime Archaeology Mark Staniforth 2008-03-11 Subject areas discussed in this book include shipwrecks and abandoned vessels, underwater site formation processes, maritime infrastructure and industries such as whaling, submerged aircraft and Australian Indigenous sites underwater. The application of National and State legislation and management regimes to these underwater cultural heritage sites is also highlighted. The contributors of this piece have set the standard for the practice in Australia from which others can learn.

The Oxford Handbook of Industrial Archaeology Eleanor Casella 2022-05-12 Representing the first substantial English-language text on Industrial Archaeology in a decade, this handbook comes at a time when the global impact of industrialization is being re-assessed in terms of its legacy of climate change, mechanization, urbanization, the forced migration of peoples, and labour relations. Critical debates around the beginning of a new geological era - The Anthropocene - have emerged over the last decade. This approach interrogates the widespread exploitation of natural resources that forged industrialization from its early emergence in 18th century northern Europe to its contemporary ubiquity, environmental impacts, and social legacy within our globalized world. Through a broad international and multi-period set of chapters, this volume explores the complex origins, processes, and development of industrialization through both its physical remains and human consequences - both the good and the bad. It provides a diverse material framework for understanding our modern world, from its industrial origins through its future paths in the 21st century.

An Archaeology of Australia Since 1788 Susan Lawrence 2010-10-21 This volume provides an important new synthesis of archaeological work carried out in Australia on the post-contact period. It draws on dozens of case studies from a wide geographical and temporal span to explore the daily life of Australians in settings such as convict stations, goldfields, whalers' camps, farms, pastoral estates and urban neighbourhoods. The different conditions experienced by various groups of people are described in detail, including rich and poor, convicts and their superiors, Aboriginal people, women, children, and migrant groups. The social themes of gender, class, ethnicity, status and identity inform every chapter, demonstrating that these are vital parts of human experience, and cannot be separated from archaeologies of industry, urbanization and culture contact. The book engages with a wide range of contemporary discussions and debates within Australian history and the international discipline of historical archaeology. The colonization of Australia was part of the international expansion of European hegemony in the eighteenth and nineteenth century. The material discussed here is thus fundamentally part of the global processes of colonization and the creation of settler societies, the industrial revolution, the development of mass consumer culture, and the emergence of national identities. Drawing out these themes and integrating them with the analysis of archaeological materials highlights the vital relevance of archaeology in modern society.

Antiquity Osbert Guy Stanhope Crawford 2001 Includes section "Reviews."

Powering Empire On Barak 2020-03-03 The Age of Empire was driven by coal, and the Middle East—as an idea—was made by coal. Coal's imperial infrastructure presaged the geopolitics of oil that wreaks carnage today, as carbonization threatens our very climate. Powering Empire argues that we cannot promote worldwide decarbonization without first understanding the history of the globalization of carbon energy. How did this black rock come to have such long-lasting power over the world economy? Focusing on the flow of British carbon energy to the Middle East, On Barak excavates the historic nexus between coal and empire to reveal the political and military motives behind what is conventionally seen as a technological innovation. He provocatively recounts the carbon-intensive entanglements of Western and non-Western powers and reveals unfamiliar resources—such as Islamic risk-aversion and Gandhian vegetarianism—for a climate justice that relies on more diverse and ethical solutions worldwide.

The Life and Times of a Merchant Sailor Jason M. Burns 2003 Historical archaeologists are in a unique position to analyze both historical documents and archaeological data in order to generate hypotheses and draw conclusions. In this work, the data not only provided the history of the ship "Catharine" but also the economic, social and political environments in which the ship was built and employed. This work focuses not only on the shipwreck and the wrecking event, but on the history and archaeology of a single ship. With this expanded view, the research also delves into:

\*International shipbuilding; \*The struggle for dominance in the ship trade in the 19th century. This book will be of interest to underwater, historical and cultural archaeologists, social historians, cultural heritage managers and archaeologists working in the southeastern United States.

Manual for Activities Directed at Underwater Cultural Heritage Thijs J. Maarleveld 2013

A Companion to Rock Art Jo McDonald 2012-06-22 This unique guide provides an artistic and archaeological journey deep into human history, exploring the petroglyphic and pictographic forms of rock art produced by the earliest humans to contemporary peoples around the world. Summarizes the diversity of views on ancient rock art from leading international scholars Includes new discoveries and research, illustrated with over 160 images (including 30 color plates) from major rock art sites around the world Examines key work of noted authorities (e.g. Lewis-Williams, Conkey, Whitley and Clottes), and outlines new directions for rock art research Is broadly international in scope, identifying rock art from North and South America, Australia, the Pacific, Africa, India, Siberia and Europe Represents new approaches in the archaeological study of rock art, exploring issues that include gender, shamanism, landscape, identity, indigeneity, heritage and tourism, as well as technological and methodological advances in rock art analyses

International Handbook of Historical Archaeology Teresita Majewski 2009-06-07 In studying the past, archaeologists have focused on the material remains of our ancestors. Prehistorians generally have only artifacts to study and rely on the diverse material record for their understanding of past societies and their behavior. Those involved in studying historically documented cultures not only have extensive material remains but also contemporary texts, images, and a range of investigative technologies to enable them to build a broader and more reflexive picture of how past societies, communities, and individuals operated and behaved. Increasingly, historical archaeology refers not to a particular period, place, or a method, but rather an approach that interrogates the tensions between artifacts and texts irrespective of context. In short, historical archaeology provides direct evidence for how humans have shaped the world we live in today. Historical archaeology is a branch



case studies, Richard A. Gould provides an up-to-date review of the field that includes dramatic new findings arising from improved undersea technologies. This second edition of *Archaeology and the Social History of Ships* has been updated throughout to reflect new findings and new interpretations of old sites. The new edition explores advances in undersea technology in archaeology, especially remotely operated vehicles. The book reviews many of the major recent shipwreck findings, including the *Vasa* in Stockholm, the Viking wrecks at Roskilde Fjord and the *Titanic*.

*Maritime Archaeology and Social Relations* Virginia Dellino-Musgrave 2006-11-22 This book analyses British action in the Southern hemisphere in the late 18th century, examining two Royal Navy ships, one off the Argentinean coast and one off the Southeast Australian coast. The author goes beyond a descriptive analysis of wrecks by treating them and their cargoes as embodiments of 18th century social relations. The book challenges traditional approaches, providing a perspective that emphasises the richness, diversity and complexity of British action.

*The CSS Arkansas* Myron J. Smith, Jr. 2011-09-08 While the *Monitor* and *Merrimack* are the most famous of the Civil War ironclads, the Confederacy had another ship in its flotilla that carried high hopes and a metal hull. The makeshift *CSS Arkansas*, completed by Lt. Isaac Newton Brown and manned by a mixed crew of volunteers, gave the South a surge of confidence when it launched in 1862. For 28 days of summer, the ship engaged in five battles with Union warships, falling victim in the end only to her own primitive engines. The saga of the *CSS Arkansas* represents the last significant Rebel naval activity in the war's Western theater.

*Contemporary and Historical Archaeology in Theory* Laura McAtackney 2007 *Studies in Contemporary and Historical Archaeology* 4

*Newsletter Society for Historical Archaeology* 2002

*The Oxford Handbook of Maritime Archaeology* Alexis Catsambis 2014-02 The *Oxford Handbook of Maritime Archaeology* is a comprehensive survey of the field at a time when maritime archaeology has established itself as a mature branch of archaeology. This volume draws on the expertise of nearly fifty international scholars who examine the many distinct and universal aspects of the discipline.

*The UNESCO Training Manual for the Protection of the Underwater Cultural Heritage in Latin America and the Caribbean* Netherlands. Ministry of Education, Culture and Science. Cultural Heritage Agency 2021-03-10

*The Best Books for Academic Libraries: World history* 2002 Books recommended for undergraduate and college libraries listed by Library of Congress Classification Numbers.

*Current Contents. Arts & Humanities* Institute for Scientific Information 2002

*Undercurrents of Power* Kevin Dawson 2021-05-07 Kevin Dawson considers how enslaved Africans carried aquatic skills—swimming, diving, boat making, even surfing—to the Americas. *Undercurrents of Power* not only chronicles the experiences of enslaved maritime workers, but also traverses the waters of the Atlantic repeatedly to trace and untangle cultural and social traditions.

*Ships' Fastenings* Michael McCarthy 2005 In this first detailed study of hull fastenings, Michael McCarthy describes those found on ships throughout the ages, from sewn-plank boats of the ancient world and Micronesia to Viking ships, Mediterranean caravels, nineteenth-century ocean clippers, and steamships. McCarthy also provides a history of many discoveries and innovations that accompanied changes in the kinds of fastenings used and the way they were secured—such as copper sheathing, metallurgy, and welding. Underwriting and insurance are also discussed, since the registries kept by Lloyd's and others dictated the form and method of fastening. This book will interest not only archaeologists and historians, but also boat builders and enthusiasts.

*Strangers on the Shore* Margo Neale 2008 "Contacts between Indigenous Australians and outsiders - Macassans, Portuguese, Dutch, English, French, Americans and others - are known to have occurred for 400 years. This book explores these diverse, subtle, dynamic and volatile first encounters from Indigenous and non-Indigenous perspectives. It also looks at the myriad elements of these cross-cultural exchanges, which resulted in profound outcomes for the First Australians. *Strangers on the Shore: A Conference on Early Coastal Contacts with Australia* was a landmark conference held at the National Museum of Australia on 30-31 March 2006"--Provided by publisher.

*IKUWA6. Shared Heritage: Proceedings of the Sixth International Congress for Underwater Archaeology* Jennifer A. Rodrigues 2020-09-03 Celebrating the theme 'Shared heritage', this volume presents the peer-reviewed proceedings from IKUWA6 (the 6th International Congress for Underwater Archaeology, Fremantle 2016). Papers offer a stimulating diversity of themes and niche topics of value to maritime archaeology practitioners, researchers, students, museum professionals and more.

*Archaeological Perspectives on Conflict and Warfare in Australia and the Pacific* Geoffrey Clark 2022-03-08 When James Boswell famously lamented the irrationality of war in 1777, he noted the universality of conflict across history and across space – even reaching what he described as the gentle and benign southern ocean nations. This volume discusses archaeological evidence of conflict from those southern oceans, from Palau and Guam, to Australia, Vanuatu and Tonga, the Marquesas, Easter Island and New Zealand. The evidence for conflict and warfare encompasses defensive earthworks on Palau, fortifications on Tonga, and intricate pa sites in New Zealand. It reports evidence of reciprocal sacrifice to appease deities in several island nations, and skirmishes and smaller scale conflicts, including in Easter Island. This volume traces aspects of colonial-era conflict in Australia and frontier battles in Vanuatu, and discusses depictions of World War II materiel in the rock art of Arnhem Land. Among the causes and motives discussed in these papers are pressure on resources, the ebb and flow of significant climate events, and the significant association of conflict with culture contact. The volume, necessarily selective, eclectic and wide-ranging, includes an incisive introduction that situates the evidence persuasively in the broader scholarship addressing the history of human warfare.

*The Historical Archaeology of Military Sites* Clarence Raymond Geier 2010-12-15 The recent work of anthropologists, historians, and historical archaeologists has changed the very essence of military history. While once preoccupied with great battles and the generals who commanded the armies and employed the tactics, military history has begun to emphasize the importance of the "common man" for interpreting events. As a result, military historians have begun to see military forces and the people serving in them from different perspectives. *The Historical Archaeology of Military Sites* has encouraged efforts to understand armies as human communities and to address the lives of those who composed them. Tying a group of combatants to the successes and failures of their military commanders leads to a failure to understand such groups as distinct social units and, in some instances, self-supporting societies: structured around a defined social and political hierarchy; regulated by law; needing to be supplied and nurtured; and often at odds with the human community whose lands they occupied, be they those of friend or foe. *The Historical Archaeology of Military Sites* will afford students, professionals dealing with military sites, and the interested public examples of the latest techniques and proven field methods to aid understanding and

conservation of these vital pieces of the world's heritage.

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