

GUNPOWDER

Edited by Brenda J Buchanan

GUNPOWDER

The History of an International Technology



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Gunpowder The History Of An International Technology

Christon I. Archer



Gunpowder The History Of An International Technology:

Gunpowder Brenda J. Buchanan,1996 **Medieval Science, Technology, and Medicine** Thomas F. Glick,Steven John Livesey,Faith Wallis,2005 Demonstrates that the millennium from the fall of the Roman Empire to the flowering of the Renaissance was a period of great intellectual and practical achievement and innovation This reference work will be useful to scholars students and general readers researching topics in many fields of study including medieval studies and world history

Gunpowder Technology in the Fifteenth Century Axel E. W. Müller,2024 The first full edition and English translation of the RA I 34 Firework Book Produced from the early fifteenth century onwards Firework Books are broadly speaking manuals on how to use gunpowder witnessing a major development in warfare Surviving in a corpus of some 65 each text has different content and components but core elements are present throughout An important example is a manuscript in the collection of the Royal Armouries RA I 34 written in Early New High German and unlike many other manuscripts still in what appears to be its original format and binding it also unusually contains a number of illustrations This volume provides the first full edition and English translation of the material with a detailed analysis of its content and context It positions the Firework Books at a crucial stage in the development of gunpowder artillery offering an unparalleled insight into fifteenth century gunpowder technology at a critical juncture of military and technological change at the end of the Middle Ages

World History Encyclopedia [21 volumes] Alfred J. Andrea Ph.D.,2011-03-23 An unprecedented undertaking by academics reflecting an extraordinary vision of world history this landmark multivolume encyclopedia focuses on specific themes of human development across cultures era by era providing the most in depth expansive presentation available of the development of humanity from a global perspective Well known and widely respected historians worked together to create and guide the project in order to offer the most up to date visions available A monumental undertaking A stunning academic achievement ABC CLIO s World History Encyclopedia is the first comprehensive work to take a large scale thematic look at the human species worldwide Comprised of 21 volumes covering 9 eras an introductory volume and an index it charts the extraordinary journey of humankind revealing crucial connections among civilizations in different regions through the ages Within each era the encyclopedia highlights pivotal interactions and exchanges among cultures within eight broad thematic categories population and environment society and culture migration and travel politics and statecraft economics and trade conflict and cooperation thought and religion science and technology Aligned to national history standards and packed with images primary resources current citations and extensive teaching and learning support the World History Encyclopedia gives students educators researchers and interested general readers a means of navigating the broad sweep of history unlike any ever published **The New Cambridge History of Islam: Volume 3, The Eastern Islamic World, Eleventh to Eighteenth Centuries** David O. Morgan,Anthony Reid,2010-11-04 This volume traces the second great expansion of the Islamic world eastwards from the eleventh century to the eighteenth As the faith crossed cultural boundaries the trader and

the mystic became as important as the soldier and the administrator Distinctive Islamic idioms began to emerge from other great linguistic traditions apart from Arabic especially in Turkish Persian Urdu Swahili Malay and Chinese The Islamic world transformed and absorbed new influences As the essays in this collection demonstrate three major features distinguish the time and place from both earlier and modern experiences of Islam Firstly the steppe tribal peoples of central Asia had a decisive impact on the Islamic lands Secondly Islam expanded along the trade routes of the Indian Ocean and the South China Sea Thirdly Islam interacted with Asian spirituality including Hinduism Sikhism Buddhism Taoism and Shamanism It was during this period that Islam became a truly world religion **Russia in the Early Modern World** Donald

Ostrowski,2022-01-25 A fundamental problem in studying early modern Russian history is determining Russia's historical development in relationship to the rest of the world The focus throughout this book is on the continuity of Russian policies during the early modern period 1450-1800 and that those policies coincided with those of other successful contemporary Eurasian polities The continuities occurred in the midst of constant change but neither one nor the other continuities or changes alone can account for Russia's success Instead Russian rulers from Ivan III to Catherine II with their hub advisors managed to sustain a balance between the two During the early modern period these Russian rulers invited into the country foreign experts to facilitate the transfer of technology and know how mostly from Europe but also from Asia In this respect they were willing to look abroad for solutions to domestic problems Russia looked westward for military weaponry and techniques at the same time it was expanding eastward into the Eurasian heartland The ruling elite and by extension the entire ruling class worked in cooperation with the ruler to implement policies The Church played an active role in supporting the government and in seeking to eliminate opposition to the government **World History of Warfare** Christon I.

Archer,2002-01-01 This book provides a wide ranging and comprehensive coverage of warfare across times and cultures Its main strengths are its ability to provide context for each period discussed comparison between developments in Europe Asia and the colonized world and critical and up to date bibliographies that allow the reader to pursue subjects in greater depth Jacket flap **Warfare in Inner Asian History (500-1800)** Nicola Di Cosmo,2018-11-12 Military developments in Inner

Asia lay at the basis of the rise of a number of Ancient and Early Modern Empires This is the first scholarly work to embrace Inner Asian military history across a broad spatial and chronological spectrum from the Turks and Uighurs to the Pechenegs and from the Mongol invasion of Syria to the Manchu conquest of China Based on previously unknown and until now underestimated sources the contributors to this volume explore the context development and characteristic features of Inner Asian warfare making original contributions to our understanding of Asian and world history *How Transformative Innovations Shaped the Rise of Nations* Gerard Tellis,Stav Rosenzweig,2018-05-30 Over the last 2 000 years critical innovations have transformed small regions into global powers But these powers have faded when they did not embrace the next big innovation Gerard J Tellis and Stav Rosenzweig argue that openness to new ideas and people empowerment of

individuals and competition are key drivers in the development and adoption of transformative innovations. These innovations in turn fuel economic growth, national dominance and global leadership. In *How Transformative Innovations Shaped the Rise of Nations*, Tellis and Rosenzweig examine the transformative qualities of concrete in Rome, swift equine warfare in Mongolia, critical navigational innovations in the golden ages of Chinese, Venetian, Portuguese and Dutch empires, the patent system and steam engine in Britain and mass production in the United States of America.

The Hundred Years War Andrew Villalon, Donald Kagay, 2005-05-01. This volume, the first of a two volume set, is the work of fourteen European and American scholars and focuses on the wider aspects of the Hundred Years War. These essays range far afield from the traditional heartlands of Hundred Years War studies to investigate the influence of the conflict on Italy, the Low Countries and Spain and on such topics as urban history and the actualities of weapon use on the battlefield. A number of the essays in this collection seek to re-examine old but thorny questions long associated with the conflict, including the real immediate impact of gunpowder technology on siege warfare during the fourteenth century and the purposeful strategy of Henry V in staging and bringing about the battle of Agincourt in 1415. With contributions by L J Andrew Villalon, Mar a Teresa Ferrer i Mallol, Donald J Kagay, Clara Estow, William P Caferro, Sergio Boffa, Peter Michael Konieczny, Paul Solon, Manuel Sanchez Mart nez, James E Gilbert, Jane Marie Pinzino, Clifford J Rogers, Kelly DeVries and John Clement. Winner of the 2014 Verbruggen Prize of De Re Militari, the Society for the Study of Medieval Military History, given annually for the best book on medieval military history.

Alternative Exchanges Laurence Fontaine, 2008-04-01. Exchanges have always had more than economic significance: values circulate and encounters become institutionalized. This volume explores the changing meaning of the circulation of second hand goods from the Renaissance to today and thereby examines the blurring of boundaries between market, gifts and charity. It describes the actors of the market: official entities such as corporations, recognized professions and established markets, but also the subterranean circulation that develops around the need for money. The complex layers that not only provide for numerous intermediaries but also include the many men and women who as sellers or buyers use these circulations on countless occasions are also examined.

The Artillery of the Dukes of Burgundy, 1363-1477 Robert Douglas Smith, Kelly DeVries, 2005. A major new exploration of the history and development of gunpowder weapons in the 15th century based on the artillery of the Dukes of Burgundy. The four Valois Dukes of Burgundy created in little more than a century a fabulously wealthy and independent state. Their centralised control and chancellery have bequeathed to us a vast treasure trove of documents including accounts and inventories of the Masters of the artillery under the later Dukes. Although many of these were extracted and transcribed in the late nineteenth century, modern historians have largely ignored their unprecedented insights into fifteenth century guns and their use. When Charles the Bold, the last Valois Duke, took on the combined Swiss confederate forces in 1476, he lost not just the battles and his personal fortune, but much of his artillery train as well. Of the dozens of cannons captured, at least 25 pieces survive in Swiss museums. The documents that

survive from the Valois state give us almost for the first time in medieval Europe the ability to see the course of history in a period when Europe was undergoing some of the most profound changes before the 20th century The Artillery of the Dukes of Burgundy is the first attempt to combine all these sources bringing new and fresh insights into the development and use of artillery in the fifteenth century Moreover this is the first modern study of medieval cannon one of the most important discoveries of the post classical world KELLY DeVRIES has authored numerous books and articles on medieval warfare ROBERT DOUGLAS SMITH formerly Head of Conservation in the Royal Armouries Tower of London is an acknowledged expert on medieval artillery This study is the first major fruit of their combined researches

Information in War Benjamin M. Jensen, Christopher Whyte, Scott Cuomo, 2022-10-03 An in depth assessment of innovations in military information technology informs hypothetical outcomes for artificial intelligence adaptations In the coming decades artificial intelligence AI could revolutionize the way humans wage war The military organizations that best innovate and adapt to this AI revolution will likely gain significant advantages over their rivals To this end great powers such as the United States China and Russia are already investing in novel sensing reasoning and learning technologies that will alter how militaries plan and fight The resulting transformation could fundamentally change the character of war In *Information in War* Benjamin Jensen Christopher Whyte and Scott Cuomo provide a deeper understanding of the AI revolution by exploring the relationship between information organizational dynamics and military power The authors analyze how militaries adjust to new information communication technology historically to identify opportunities risks and obstacles that will almost certainly confront modern defense organizations as they pursue AI pathways to the future *Information in War* builds on these historical cases to frame four alternative future scenarios exploring what the AI revolution could look like in the US military by 2040

The Heirs of Archimedes Brett D. Steele, Tamera Dorland, 2005 Essays analyze the connections between science and technology and military power in the late medieval Renaissance and Enlightenment periods The integration of scientific knowledge and military power began long before the Manhattan Project In the third century BC Archimedes was renowned for his research in mechanics and mathematics as well as for his design and coordination of defensive siegecraft for Syracuse during the Second Punic War This collection of essays examines the emergence during the early modern era of mathematicians chemists and natural philosophers who along with military engineers navigators and artillery officers followed in the footsteps of Archimedes and synthesized scientific theory and military practice It is the first collaborative scholarly assessment of these early military scientific relationships which have been long neglected by scholars both in the history of science and technology and in military history From a historical perspective this volume investigates the deep connections between two central manifestations of Western power examining the military context of the Scientific Revolution and the scientific context of the Military Revolution Unlike the classic narratives of the Scientific Revolution that focus on the theories of and conflicts between Aristotelian and Platonic worldviews this volume highlights the emergence of the

Archimedean ideal in which a symbiosis exists between the supply of mechanistic science and the demand for military capability From a security studies perspective this work presents an in depth study of the central components of military power as well as their dynamic interactions in the political acquisitional operational and tactical domains The essays in this volume reveal the intellectual and cultural struggles to enhance the capabilities of these components an exercise in transforming military power that remains relevant for today s armed forces The volume sets the stage by examining the innovation of gunpowder weaponry in both the Christian and the Islamic states of the late medieval and Renaissance eras It then explores such topics as the cultural resistance to scientific techniques and the relationship between early modern science and naval power particularly the intersecting developments in mathematics and oceanic navigation Other essays address the efforts of early practitioners and theorists of chemistry to increase the power and consistency of gunpowder The final essays analyze the application of advanced scientific knowledge and Enlightenment ideals to the military engineering and artillery organizations of the eighteenth century The volume concludes by noting the global spread of the Archimedean ideal during the nineteenth century as an essential means for resisting Western imperialism

Empire of Guns Priya Satia, 2018-04-10 NAMED ONE OF THE BEST BOOKS OF 2018 BY THE SAN FRANCISCO CHRONICLE AND SMITHSONIAN MAGAZINE By a prize winning young historian an authoritative work that reframes the Industrial Revolution the expansion of British empire and emergence of industrial capitalism by presenting them as inextricable from the gun trade A fascinating and important glimpse into how violence fueled the industrial revolution Priya Satia s book stuns with deep scholarship and sparkling prose Siddhartha Mukherjee Pulitzer Prize winning author of *The Emperor of All Maladies* We have long understood the Industrial Revolution as a triumphant story of innovation and technology *Empire of Guns* a rich and ambitious new book by award winning historian Priya Satia upends this conventional wisdom by placing war and Britain s prosperous gun trade at the heart of the Industrial Revolution and the state s imperial expansion Satia brings to life this bustling industrial society with the story of a scandal Samuel Galton of Birmingham one of Britain s most prominent gunmakers has been condemned by his fellow Quakers who argue that his profession violates the society s pacifist principles In his fervent self defense Galton argues that the state s heavy reliance on industry for all of its war needs means that every member of the British industrial economy is implicated in Britain s near constant state of war *Empire of Guns* uses the story of Galton and the gun trade from Birmingham to the outermost edges of the British empire to illuminate the nation s emergence as a global superpower the roots of the state s role in economic development and the origins of our era s debates about gun control and the military industrial complex that thorny partnership of government the economy and the military Through Satia s eyes we acquire a radically new understanding of this critical historical moment and all that followed from it Sweeping in its scope and entirely original in its approach *Empire of Guns* is a masterful new work of history a rigorous historical argument with a human story at its heart

Mughal Warfare J.J.L. Gommans, 2002-08-15 *Mughal Warfare* offers a much needed new survey

of the military history of Mughal India during the age of imperial splendour from 1500 to 1700 Jos Gommans looks at warfare as an integrated aspect of pre colonial Indian society Based on a vast range of primary sources from Europe and India this thorough study explores the wider geo political cultu *Materials and Expertise in Early Modern Europe* Ursula Klein, Emma C. Spary, 2010-04-15 It is often assumed that natural philosophy was the forerunner of early modern natural sciences But where did these sciences systematic observation and experimentation get their starts In *Materials and Expertise in Early Modern Europe* the laboratories workshops and marketplaces emerge as arenas where hands on experience united with higher learning In an age when chemistry mineralogy geology and botany intersected with mining metallurgy pharmacy and gardening materials were objects that crossed disciplines Here the contributors tell the stories of metals clay gunpowder pigments and foods and thereby demonstrate the innovative practices of technical experts the development of the consumer market and the formation of the observational and experimental sciences in the early modern period *Materials and Expertise in Early Modern Europe* showcases a broad variety of forms of knowledge from ineffable bodily skills and technical competence to articulated know how and connoisseurship from methods of measuring data gathering and classification to analytical and theoretical knowledge By exploring the hybrid expertise involved in the making consumption and promotion of various materials and the fluid boundaries they traversed the book offers an original perspective on important issues in the history of science medicine and technology *Journal of Medieval Military History* Beñat Elortza Larrea, 2020-06-19 The *Journal of Medieval Military History* continues to consolidate its now assured position as the leading academic vehicle for scholarly publication in the field of medieval warfare *Medieval Warfare The Sea* Peter N. Miller, 2013-04-24 The *Seabridges* together a group of noted contributors to evaluate the different ways in which seas have served as subjects in historiography and asks how this has changed and will change the way history is written The essays in this volume provide exemplary demonstrations of how a sea based history writing that focuses on connectivity networks and individuals describes the horizons and the potential of thalassography the study of the world made by individuals embedded in networks of motion As Peter N Miller contends in his introduction writing about the sea today is a way of partaking in the wider historiographical shift toward microhistory exchange relations networks and above all materiality both literally and figuratively *The Sea* focuses not on questions of discipline and professionalization as much as on the practice of scholarship the writing and therefore the planning and organizing of histories of the sea *The Making of History* K. N. Panikkar, T. J. Byres, Utsa Patnaik, 2002 A Marxist scholar and historian Irfan Habib has been a towering presence in the Indian intellectual scene for over four decades Professor Habib s undiminished commitment to the cause of socialism is reflected in these highly original and bold analyses of Marxist historiography and theories of socialist construction

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sequence here lfsr is a linear array of n n elements with initial value

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