

Civil War Technology Advances

civil war technology advances: *War and Technology: A Very Short Introduction* Alex Roland, 2016-09-01 The war instinct is part of human nature, but the means to fight war depend on technology. Alex Roland traces the co-evolution of technology and warfare from the Stone Age to the age of cyberwar, describing the inventions that changed the direction of warfare throughout history: from fortified walls, the chariot, battleships, and the gunpowder revolution to bombers, rockets, improvised explosive devices (IEDs), and nuclear weapons. In the twenty-first century, new technologies continue to push warfare in unexpected directions, while warfare stimulates stunning new technological advances. Yet even now, the newest and best technology cannot guarantee victory. Brimming with dramatic narratives of battles and deep insights into military psychology, this book shows that although military technologies keep changing at great speed, the principles and patterns behind them abide.

civil war technology advances: Engineering Victory Thomas F. Army Jr., 2016-06-01 Superior engineering skills among Union soldiers helped ensure victory in the Civil War. *Engineering Victory* brings a fresh approach to the question of why the North prevailed in the Civil War. Historian Thomas F. Army, Jr., identifies strength in engineering—not superior military strategy or industrial advantage—as the critical determining factor in the war’s outcome. Army finds that Union soldiers were able to apply scientific ingenuity and innovation to complex problems in a way that Confederate soldiers simply could not match. Skilled Free State engineers who were trained during the antebellum period benefited from basic educational reforms, the spread of informal educational practices, and a culture that encouraged learning and innovation. During the war, their rapid construction and repair of roads, railways, and bridges allowed Northern troops to pass quickly through the forbidding terrain of the South as retreating and maneuvering Confederates struggled to cut supply lines and stop the Yankees from pressing any advantage. By presenting detailed case studies from both theaters of the war, Army clearly demonstrates how the soldiers’ education, training, and talents spelled the difference between success and failure, victory and defeat. He also reveals massive logistical operations as critical in determining the war’s outcome.

civil war technology advances: *War and Technology* Jeremy Black, 2013-08-20 “[A] scholarly overview of military technology throughout history—starting roughly in the 15th century and extending into the future . . . insightful.”—Publishers Weekly In this engaging book, Jeremy Black argues that technology neither acts as an independent variable nor operates without major limitations. This includes its capacity to obtain end results, as technology’s impact is far from simple and its pathways are by no means clear. After considering such key conceptual points, Black discusses important technological advances in weaponry and power projection from sailing warships to aircraft carriers, muskets to tanks, balloons to unmanned drones—in each case, taking into account what difference these advances made. He addresses not only firepower but also power projection and technologies of logistics, command, and control. Examining military technologies in their historical context and the present centered on the Revolution in Military Affairs and Military Transformation, Black then forecasts possible future trends. “Clear, concise, and thoughtful. An eminently readable synthesis of historical literature on technology and war.”—John France, author of *Perilous Glory: The Rise of Western Military Power* “An interesting, thought provoking work by a major military historian . . . whose depth and wide range of knowledge across the entire sweep of world military history is without parallel.... Those who read this book closely will be richly rewarded for it is a mine of useful information and grist for discussion.”—Spencer C. Tucker, author of *The European Powers in the First World War* “A most useful introduction to a very complex subject, and particularly valuable for its notes and references to other works. Provocative and vigorously argued .

. . Highly recommended.”—Choice

civil war technology advances: Mr. Lincoln's High-tech War Thomas B. Allen, Roger MacBride Allen, 2009 Shows the part technology played in the North winning the Civil War over the South and how Lincoln appreciated technology after awhile.

civil war technology advances: America's Buried History Kenneth R. Rutherford, 2020 America's Buried History traces the development of landmines from their first use before the Civil War, to the early use of naval mines, through the establishment of the Confederacy's Army Torpedo Bureau, the world's first institution devoted to developing, producing, and fielding mines in warfare.--Provided by publisher,

civil war technology advances: A Short History of the American Civil War Paul Christopher Anderson, 2019-12-26 The American Civil War (1861-65) remains a searing event in the collective consciousness of the United States. It was one of the bloodiest conflicts in modern history, claiming the lives of at least 600,000 soldiers and an unknown number of civilians and slaves. The Civil War was also one of the world's first truly industrial conflicts, involving railroads, the telegraph, steamships and mass-manufactured weaponry. The eventual victory of the Union over the Confederacy rang the death-knell for American slavery, and set the USA on the path to becoming a truly world power. Paul Christopher Anderson shows how and why the conflict remains the nation's defining moment, arguing that it was above all a struggle for power and political supremacy but was also a struggle for the idea of America. Melding social, cultural and military history, the author explores iconic battles like Shiloh, Chickamauga, Antietam and Gettysburg, as well as the bitterly contesting forces underlying them and the myth-making that came to define them in aftermath. He shows that while both sides began the war in order to preserve - the integrity of the American state in the case of the Union, the integrity of a culture, a value system, and as slave society in the case of the Confederacy - it allowed the American South to define a regional identity that has survived into modern times.

civil war technology advances: Technology and the Civil War Shane Mountjoy, 2009 During the Civil War, both sides experimented with developing technologies. Exploding shells, hot air balloons, anesthesia, land mines, submarines, and the telegraph are a few of the unique technologies that Union and Confederate leaders used in their struggle to win the war.

civil war technology advances: Attack and Die Grady McWhiney, Perry D. Jamieson, 1982 Why did the Confederacy lose so many men? The authors contend that the Confederates bled themselves nearly to death in the first three years of the war by making costly attacks more often than the Federals. Offensive tactics, which had been used successfully by Americans in the Mexican War, were much less effective in the 1860s because an improved weapon - the rifle - had given increased strength to defenders. This book describes tactical theory in the 1850s and suggests how each related to Civil War tactics. It also considers the development of tactics in all three arms of the service during the Civil War.

civil war technology advances: The Silk Road: A Very Short Introduction James A. Millward, 2013-04-26 The Silk Road: A Very Short Introduction is a new look at an ancient subject: the silk road that linked China, India, Persia and the Mediterranean across the expanses of Central Asia. James A. Millward highlights unusual but important biological, technological and cultural exchanges over the silk roads that stimulated development across Eurasia and underpin civilization in our modern, globalized world.

civil war technology advances: Mastering a New Role National Academy of Engineering, Committee on Technology Policy Options in a Global Economy, 1993-02-01 This book examines the changing character of commercial technology development and diffusion in an integrated global economy and its implications for U.S. public policies in support of technological innovation. The volume considers the history, current practice, and future prospects for national policies to encourage economic development through both direct and indirect government support of technological advance.

civil war technology advances: The Fourth Industrial Revolution Klaus Schwab,

2017-01-03 World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine “smart factories” in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

civil war technology advances: The Rise and Fall of American Growth Robert J. Gordon, 2017-08-29 How America's high standard of living came to be and why future growth is under threat In the century after the Civil War, an economic revolution improved the American standard of living in ways previously unimaginable. Electric lighting, indoor plumbing, motor vehicles, air travel, and television transformed households and workplaces. But has that era of unprecedented growth come to an end? Weaving together a vivid narrative, historical anecdotes, and economic analysis, *The Rise and Fall of American Growth* challenges the view that economic growth will continue unabated, and demonstrates that the life-altering scale of innovations between 1870 and 1970 cannot be repeated. Gordon contends that the nation's productivity growth will be further held back by the headwinds of rising inequality, stagnating education, an aging population, and the rising debt of college students and the federal government, and that we must find new solutions. A critical voice in the most pressing debates of our time, *The Rise and Fall of American Growth* is at once a tribute to a century of radical change and a harbinger of tougher times to come.

civil war technology advances: Civil War Infantry Tactics Earl J. Hess, 2015-04-13 EARL J. HESS is Stewart W. McClelland Chair in History at Lincoln Memorial University and the author of fifteen books on the Civil War, including *Kennesaw Mountain: Sherman, Johnston, and the Atlanta Campaign* ; *The Knoxville Campaign: Burnside and Longstreet in East Tennessee* ; and *The Civil War in the West: Victory and Defeat from the Appalachians to the Mississippi*.

civil war technology advances: War Made New Max Boot, 2006-10-19 A monumental, groundbreaking work, now in paperback, that shows how technological and strategic revolutions have transformed the battlefield Combining gripping narrative history with wide-ranging analysis, *War Made New* focuses on four revolutions in military affairs and describes how inventions ranging from gunpowder to GPS-guided air strikes have remade the field of battle—and shaped the rise and fall of empires. *War Made New* begins with the Gunpowder Revolution and explains warfare's evolution from ritualistic, drawn-out engagements to much deadlier events, precipitating the rise of the modern nation-state. He next explores the triumph of steel and steam during the Industrial Revolution, showing how it powered the spread of European colonial empires. Moving into the twentieth century and the Second Industrial Revolution, Boot examines three critical clashes of World War II to illustrate how new technology such as the tank, radio, and airplane ushered in terrifying new forms of warfare and the rise of centralized, and even totalitarian, world powers. Finally, Boot focuses on the Gulf War, the invasion of Afghanistan, and the Iraq War—arguing that

even as cutting-edge technologies have made America the greatest military power in world history, advanced communications systems have allowed decentralized, irregular forces to become an increasingly significant threat.

civil war technology advances: Gardner's Photographic Sketchbook of the Civil War

Alexander Gardner, In presenting the Photographic Sketch Book of the War to the attention of the public, it is designed that it shall speak for itself. The omission, therefore, of any remarks by way of preface might well be justified; and yet, perhaps, a few introductory words may not be amiss. As mementoes of the fearful struggle through which the country has just passed, it is confidently hoped that the following pages will possess an enduring interest. Localities that would scarcely have been known, and probably never remembered, save in their immediate vicinity, have become celebrated, and will ever be held sacred as memorable fields, where thousands of brave men yielded up their lives a willing sacrifice for the cause they had espoused. Verbal representations of such places, or scenes, may or may not have the merit of accuracy; but photographic presentments of them will be accepted by posterity with an undoubting faith. During the four years of the war, almost every point of importance has been photographed, and the collection from which these views have been selected amounts to nearly three thousand.

civil war technology advances: The American Civil War and the Origins of Modern Warfare

Edward Hagerman, 1992-09-22 The American Civil War was a war of transition: a war of romanticism and idealism fought by a large citizen army with the first tools of modern warfare. This book is a must for students of American history and military affairs. Annotation copyrighted by Book News, Inc., Portland, OR

civil war technology advances: Hell and Good Company Richard Rhodes, 2015-02-03

Celebrated historian Richard Rhodes explores the Spanish Civil War through the stories of the reporters, writers, artists and doctors who witnessed it. The Spanish Civil War (1936-1939) engaged an extraordinary number of exceptional artists and writers: Pablo Picasso, Joan Miro, Martha Gellhorn, Ernest Hemingway, George Orwell, John Dos Passos, to name only a few. The idealism of the cause - defending democracy from fascism at a time when Europe was darkening toward another world war - and the brutality of the conflict drew from them some of their best work: *Guernica*, *For Whom the Bell Tolls*, *Homage to Catalonia*. Paralleling the outpouring of writing and art, the war spurred breakthroughs in military and medical technology. So many different countries participated directly or indirectly in the war that *Time* magazine called it the 'Little World War'; Spain served in those years as a proving ground for the devastating technologies of World War II, and for the entire 20th century.

civil war technology advances: Lights, Camera, War Johanna Neuman, 1996 Assesses the influence of worldwide media coverage on political decisions, and discusses how the political process adapts to new technologies

civil war technology advances: Toward Combined Arms Warfare Jonathan Mallory House, 1985

civil war technology advances: Military Ballooning During the Early Civil War F.

Stansbury Haydon, 2000-07-14 Crouch, senior curator of the Aeronautics Division at the National Air and Space Museum.

civil war technology advances: The Twelve Tables Anonymous, 2019-12-05 This book presents the legislation that formed the basis of Roman law - The Laws of the Twelve Tables. These laws, formally promulgated in 449 BC, consolidated earlier traditions and established enduring rights and duties of Roman citizens. The Tables were created in response to agitation by the plebeian class, who had previously been excluded from the higher benefits of the Republic. Despite previously being unwritten and exclusively interpreted by upper-class priests, the Tables became highly regarded and formed the basis of Roman law for a thousand years. This comprehensive sequence of definitions of private rights and procedures, although highly specific and diverse, provided a foundation for the enduring legal system of the Roman Empire.

civil war technology advances: Global China Tarun Chhabra, Rush Doshi, Ryan Hass,

2021-06-22 The global implications of China's rise as a global actor In 2005, a senior official in the George W. Bush administration expressed the hope that China would emerge as a "responsible stakeholder" on the world stage. A dozen years later, the Trump administration dramatically shifted course, instead calling China a "strategic competitor" whose actions routinely threaten U.S. interests. Both assessments reflected an underlying truth: China is no longer just a "rising" power. It has emerged as a truly global actor, both economically and militarily. Every day its actions affect nearly every region and every major issue, from climate change to trade, from conflict in troubled lands to competition over rules that will govern the uses of emerging technologies. To better address the implications of China's new status, both for American policy and for the broader international order, Brookings scholars conducted research over the past two years, culminating in a project: Global China: Assessing China's Growing Role in the World. The project is intended to furnish policy makers and the public with hard facts and deep insights for understanding China's regional and global ambitions. The initiative draws not only on Brookings's deep bench of China and East Asia experts, but also on the tremendous breadth of the institution's security, strategy, regional studies, technological, and economic development experts. Areas of focus include the evolution of China's domestic institutions; great power relations; the emergence of critical technologies; Asian security; China's influence in key regions beyond Asia; and China's impact on global governance and norms. Global China: Assessing China's Growing Role in the World provides the most current, broad-scope, and fact-based assessment of the implications of China's rise for the United States and the rest of the world.

civil war technology advances: *The Civil War at Sea* Craig L. Symonds, 2012 Continuing in the vein of the Lincoln-prize winning *Lincoln and His Admirals*, acclaimed naval historian Craig L. Symonds presents an operational history of the Civil War navies - both Union and Confederate - in this concise volume. Illuminating how various aspects of the naval engagement influenced the trajectory of the war as a whole, *The Civil War at Sea* adds to our understanding of America's great national conflict. Both the North and the South developed and deployed hundreds of warships between 1861 and 1865. Because the Civil War coincided with a revolution in naval technology, the development and character of warfare at sea from 1861-1865 was dramatic and unprecedented. Rather than a simple chronology of the war at sea, Symonds addresses the story of the naval war topically, from the dramatic transformation wrought by changes in technology to the establishment, management, and impact of blockade. He also offers critical assessments of principal figures in the naval war, from the opposing secretaries of the navy to leading operational commanders such as David Glasgow Farragut and Raphael Semmes. Symonds brings his expertise and knowledge of military and technological history to bear in this essential exploration of American naval engagement throughout the Civil War.

civil war technology advances: *The United States Air Force and the Culture of Innovation, 1945-1965* Stephen B. Johnson, 2002

civil war technology advances: Opportunities in Biotechnology for Future Army Applications National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Opportunities in Biotechnology for Future Army Applications, 2001-07-11 This report surveys opportunities for future Army applications in biotechnology, including sensors, electronics and computers, materials, logistics, and medical therapeutics, by matching commercial trends and developments with enduring Army requirements. Several biotechnology areas are identified as important for the Army to exploit, either by direct funding of research or by indirect influence of commercial sources, to achieve significant gains in combat effectiveness before 2025.

civil war technology advances: Global Trends 2040 National Intelligence Council, 2021-03 The ongoing COVID-19 pandemic marks the most significant, singular global disruption since World War II, with health, economic, political, and security implications that will ripple for years to come. -Global Trends 2040 (2021) *Global Trends 2040-A More Contested World* (2021), released by the US National Intelligence Council, is the latest report in its series of reports starting in 1997 about

megatrends and the world's future. This report, strongly influenced by the COVID-19 pandemic, paints a bleak picture of the future and describes a contested, fragmented and turbulent world. It specifically discusses the four main trends that will shape tomorrow's world: - Demographics-by 2040, 1.4 billion people will be added mostly in Africa and South Asia. - Economics-increased government debt and concentrated economic power will escalate problems for the poor and middleclass. - Climate-a hotter world will increase water, food, and health insecurity. - Technology-the emergence of new technologies could both solve and cause problems for human life. Students of trends, policymakers, entrepreneurs, academics, journalists and anyone eager for a glimpse into the next decades, will find this report, with colored graphs, essential reading.

civil war technology advances: *A Concise History of the U.S. Air Force* Stephen Lee McFarland, 1997 Except in a few instances, since World War II no American soldier or sailor has been attacked by enemy air power. Conversely, no enemy soldier or sailor has acted in combat without being attacked or at least threatened by American air power. Aviators have brought the air weapon to bear against enemies while denying them the same prerogative. This is the legacy of the U.S. Air Force, purchased at great cost in both human and material resources. More often than not, aerial pioneers had to fight technological ignorance, bureaucratic opposition, public apathy, and disagreement over purpose. Every step in the evolution of air power led into new and untrodden territory, driven by humanitarian impulses; by the search for higher, faster, and farther flight; or by the conviction that the air way was the best way. Warriors have always coveted the high ground. If technology permitted them to reach it, men, women and an air force held and exploited it-from Thomas Selfridge, first among so many who gave that last full measure of devotion; to Women's Airforce Service Pilot Ann Baumgartner, who broke social barriers to become the first American woman to pilot a jet; to Benjamin Davis, who broke racial barriers to become the first African American to command a flying group; to Chuck Yeager, a one-time non-commissioned flight officer who was the first to exceed the speed of sound; to John Levittow, who earned the Medal of Honor by throwing himself over a live flare to save his gunship crew; to John Warden, who began a revolution in air power thought and strategy that was put to spectacular use in the Gulf War. Industrialization has brought total war and air power has brought the means to overfly an enemy's defenses and attack its sources of power directly. Americans have perceived air power from the start as a more efficient means of waging war and as a symbol of the nation's commitment to technology to master challenges, minimize casualties, and defeat adversaries.

civil war technology advances: *Civil War Newspaper Maps* David C. Bosse, 1993 Bull Run ... Ball's Bluff... Secessionville ... Antietam ... Champion's Hill ... Chickamauga. To the Northern public during the Civil War they were exotic names of unfamiliar places where husbands, sons, fathers, and brothers fought and died. Hungry for information from these far-off battlefields, Americans began buying daily newspapers in record numbers. Competition among publishers grew keen. Correspondents reporting from the field soon began supplementing written dispatches with battlefield maps, and before long newspapers were seeking new ways to portray topography and battle lines in clear, effective images. In *Civil War Newspaper Maps* David Bosse shows how nineteenth-century advances in printing and engraving technology, coupled with an unprecedented public demand for information, led to the development of a means of mass communication still in use today - the quickly produced newspaper battlefield map. Bosse's introduction offers a concise overview of the subject, including how correspondents got maps to their papers from the field, press-military relations during the war, and the economic problems of map printing. Following the text is an atlas of forty-five newspaper maps printed by the Northern daily press. Each map is accompanied by a summary of the military operation it illustrates and a commentary on the map itself, including an evaluation of its accuracy based on comparison with other historical and cartographic sources. Arranged chronologically, the maps cover nearly every theater of the war and represent a unique historical record of one of the pivotal events in American history.

civil war technology advances: *A Companion to the U.S. Civil War* Aaron Sheehan-Dean, 2014-02-05 *A Companion to the U.S. Civil War* presents a comprehensive historiographical collection

of essays covering all major military, political, social, and economic aspects of the American Civil War (1861-1865). Represents the most comprehensive coverage available relating to all aspects of the U.S. Civil War. Features contributions from dozens of experts in Civil War scholarship. Covers major campaigns and battles, and military and political figures, as well as non-military aspects of the conflict such as gender, emancipation, literature, ethnicity, slavery, and memory.

civil war technology advances: *Striking Power* Jeremy Rabkin, John Yoo, 2017-09-12 Threats to international peace and security include the proliferation of weapons of mass destructions, rogue nations, and international terrorism. The United States must respond to these challenges to its national security and to world stability by embracing new military technologies such as drones, autonomous robots, and cyber weapons. These weapons can provide more precise, less destructive means to coerce opponents to stop WMD proliferation, clamp down on terrorism, or end humanitarian disasters. Efforts to constrain new military technologies are not only doomed, but dangerous. Most weapons in themselves are not good or evil; their morality turns on the motives and purposes for the war itself. These new weapons can send a strong message without cause death or severe personal injury, and as a result can make war less, rather than more, destructive.

civil war technology advances: *The Cause Lost* William C. Davis, 1996 This work investigates the facts and fictions of the South's victories and defeats during the American Civil War. It debunks long-standing legends, offers evidence explaining Confederate actions and considers the idealism, naivete and courage of military leadership and would-be founding fathers.

civil war technology advances: *The American Way of War* Russell Frank Weigley, 1973 In this authoritative and controversial study, Russel F. Weigley traces the emergence of a characteristic American way of war - in which the object of military strategy has come to mean total destruction of the enemy, first of his armed forces, often of the whole fabric of his society.

civil war technology advances: *The Eagle's Talons* Dennis M. Drew, U.S. Air University. Center for Aerospace Doctrine, Research, and Education, United States. Air University. Maxwell Air Force Base, Alabama, Donald M. Snow, 1988-12 Amerikanske Revolution; Amerikanske Borgerkrig; Første verdenskrig; Anden Verdenskrig; Koreakrigen; Vietnamkrigen; Krigen mod Mexico; Spansk-amerikanske krig;

civil war technology advances: *The Way of the Ship* Alex Roland, W. Jeffrey Bolster, Alexander Keyssar, 2008 The Way of the Ship offers a global perspective and considers both oceanic shipping and domestic shipping along America's coasts and inland waterways, with explanations of the forces that influenced the way of the ship. The result is an eye-opening, authoritative look at American maritime history and the ways it helped shape the nation's history.--BOOK JACKET.

civil war technology advances: *The Cambridge History of Capitalism* Larry Neal, Jeffrey G. Williamson, 2014-01-23 The first volume of The Cambridge History of Capitalism provides a comprehensive account of the evolution of capitalism from its earliest beginnings. Starting with its distant origins in ancient Babylon, successive chapters trace progression up to the 'Promised Land' of capitalism in America. Adopting a wide geographical coverage and comparative perspective, the international team of authors discuss the contributions of Greek, Roman, and Asian civilizations to the development of capitalism, as well as the Chinese, Indian and Arab empires. They determine what features of modern capitalism were present at each time and place, and why the various precursors of capitalism did not survive. Looking at the eventual success of medieval Europe and the examples of city-states in northern Italy and the Low Countries, the authors address how British mercantilism led to European imitations and American successes, and ultimately, how capitalism became global.

civil war technology advances: *Mr. Lincoln's T-Mails* Tom Wheeler, 2009-10-13 This "intriguing" look at the sixteenth president's telegraph usage during the Civil War "revisits a familiar hero, but does so from an utterly new perspective" (Ken Burns). The Civil War was the first "modern war." Because of rapid changes in American society, Abraham Lincoln became president of a divided United States during a period of technological and social revolution. Among the many modern marvels that gave the North an advantage was the telegraph, which Lincoln used to stay

connected to the forces in the field in almost real time. No leader in history had ever possessed such a powerful tool to gain control over a fractious situation. An eager student of technology, Lincoln (the only president to hold a patent) had to learn to use the power of electronic messages. Without precedent to guide him, Lincoln began by reading the telegraph traffic among his generals. Then he used the telegraph to supplement his preferred form of communication—meetings and letters. He did not replace those face-to-face interactions. Through this experience, Lincoln crafted the best way to guide, reprimand, praise, reward, and encourage his commanders in the field. Written by a former FCC chairman, Mr. Lincoln's T-Mails tells a big story within a small compass—both an elegant work of history and a timeless lesson in leadership. By paying close attention to Lincoln's "lightning messages," we see a great leader adapt to a new medium. No reader of this work of history will be able to miss the contemporary parallels. Watching Lincoln carefully word his messages—and follow up on those words with the right actions—offers a striking example for those who spend their days tapping out notes on their various devices. "Mr. Lincoln's T-Mails shines. . . . an accessible jaunt through this formative American event." —USA Today "Wheeler shows a Lincoln groping for a best-use of new technology and learning the limitations of the 'killer app.'" —Booklist "Altogether captivating." —Harold Holzer, author of Brought Forth on This Continent: Abraham Lincoln and American Immigration

civil war technology advances: Opportunities in Neuroscience for Future Army Applications National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Opportunities in Neuroscience for Future Army Applications, 2009-06-16 Advances and major investments in the field of neuroscience can enhance traditional behavioral science approaches to training, learning, and other applications of value to the Army. Neural-behavioral indicators offer new ways to evaluate how well an individual trainee has assimilated mission critical knowledge and skills, and can also be used to provide feedback on the readiness of soldiers for combat. Current methods for matching individual capabilities with the requirements for performing high-value Army assignments do not include neuropsychological, psychophysiological, neurochemical or neurogenetic components; simple neuropsychological testing could greatly improve training success rates for these assignments. Opportunities in Neuroscience for Future Army Applications makes 17 recommendations that focus on utilizing current scientific research and development initiatives to improve performance and efficiency, collaborating with pharmaceutical companies to employ neuropharmaceuticals for general sustainment or enhancement of soldier performance, and improving cognitive and behavioral performance using interdisciplinary approaches and technological investments. An essential guide for the Army, this book will also be of interest to other branches of military, national security and intelligence agencies, academic and commercial researchers, pharmaceutical companies, and others interested in applying the rapid advances in neuroscience to the performance of individual and group tasks.

civil war technology advances: Iron Coffin David A. Mindell, 2012-03-01 The USS Monitor famously battled the CSS Virginia (the armored and refitted USS Merrimack) at Hampton Roads in March 1862. This updated edition of David A. Mindell's classic account of the ironclad warships and the human dimension of modern warfare commemorates the 150th anniversary of this historic encounter. Mindell explores how mariners—fighting blindly, below the waterline—lived in and coped with the metal monster they called the iron coffin. He investigates how the ironclad technology, new to war in the nineteenth century, changed not only the tools but also the experience of combat and anticipated today's world of mechanized, pushbutton warfare. The writings of William Frederick Keeler, the ship's paymaster, inform much of this book, as do the experiences of everyman sailor George Geer, who held Keeler in some contempt. Mindell uses their compelling stories, and those of other shipmates, to recreate the thrills and dangers of living and fighting aboard this superweapon. Recently, pieces of the Monitor wreck have been raised from their watery grave, and with them, information about the ship continues to be discovered. A new epilogue describes the recovery of the Monitor turret and its display at the USS Monitor Museum in Newport News, Virginia. This sensitive and enthralling history of the USS Monitor ensures that this fateful ship, and the men who served on

it, will be remembered for generations to come.

civil war technology advances: Britain's War Machine David Edgerton, 2011-09-09 The familiar image of the British in the Second World War is that of the plucky underdog taking on German might. David Edgerton's bold, compelling new history shows the conflict in a new light, with Britain as a very wealthy country, formidable in arms, ruthless in pursuit of its interests, and in command of a global production system. Rather than belittled by a Nazi behemoth, Britain arguably had the world's most advanced mechanized forces. It had not only a great empire, but allies large and small. Edgerton shows that Britain fought on many fronts and its many home fronts kept it exceptionally well supplied with weapons, food and oil, allowing it to mobilize to an extraordinary extent. It created and deployed a vast empire of machines, from the humble tramp steamer to the battleship, from the rifle to the tank, made in colossal factories the world over. Scientists and engineers invented new weapons, encouraged by a government and prime minister enthusiastic about the latest technologies. The British, indeed Churchillian, vision of war and modernity was challenged by repeated defeat at the hands of less well-equipped enemies. Yet the end result was a vindication of this vision. Like the United States, a powerful Britain won a cheap victory, while others paid a great price. Putting resources, machines and experts at the heart of a global rather than merely imperial story, Britain's War Machine demolishes timeworn myths about wartime Britain and gives us a groundbreaking and often unsettling picture of a great power in action.

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