Technological Change and the United States Navy, 1865–1945

William M. McBride

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Matthew S. Muehlbauer,David J. Ulbrich

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Technological Change and the United States Navy, 1865–1945 William M. McBride,2000 Winner Engineer Historian Award from the American Society of Mechanical Engineers Navies have always been technologically sophisticated from the ancient world s trireme galleys and the Age of Sail s ships of the line to the dreadnoughts of World War I and today s nuclear powered aircraft carriers and submarines Yet each large technical innovation has met with resistance and even hostility from those officers who adhering to a familiar warrior ethos have grown used to a certain style of fighting In Technological Change and the United States Navy William M McBride examines how the navy dealt with technological change from the end of the Civil War through the age of the battleship as technology became more complex and the nation assumed a global role Although steam engines generally made their mark in the maritime world by 1865 for example and proved useful to the Union riverine navy during the Civil War a backlash within the service later developed against both steam engines and the engineers who ran them Early in the twentieth century the large dreadnought battleship at first met similar resistance from some officers including the famous Alfred Thayer Mahan and their industrial and political allies During the first half of the twentieth century the battleship exercised a dominant influence on those who developed the nation s strategies and operational plans at the same time that advances in submarines and fixed wing aircraft complicated the picture and undermined the battleship s superiority In any given period argues McBride some technologies initially threaten the navy s image of itself Professional jealousies and insecurities ignorance and hidebound traditions arguably influenced the officer corps on matters of technology as much as concerns about national security and McBride contends that this dynamic persists today McBride also demonstrates the interplay between technological innovation and other influences on naval adaptability international commitments strategic concepts government industrial relations and the constant influence of domestic politics Challenging technological determinism he uncovers the conflicting attitudes toward technology that guided naval policy between the end of the Civil War and the dawning of the nuclear age The evolution and persistence of the battleship navy he argues offer direct insight into the dominance of the aircraft carrier paradigm after 1945 and into the twenty first century

The Pursuit of Technological Superiority and the Shrinking American Military Daniel R. Lake,2019-01-22 Why has the US military begun to suffer from overstretch in recent decades Why is one of the largest militaries in the world and the most expensive by far periodically stressed by the operational demands placed upon it This book argues that recent problems with overstretch are the result of a heavy reliance on technology to solve tactical and strategic problems Over the last seven decades the US armed services have consistently chosen to push the technological frontier out in an effort to first gain and then maintain qualitative superiority over potential foes The high procurement and support costs associated with cutting edge weapon systems has resulted in a military that is shrinking in both absolute size and in the relative share of combat forces The culmination of this process is a US military that increasingly lacks the capacity needed to conduct operations

without putting significant stress on its personnel and equipment Lake argues that this patternis a manifestation of an American cultural disposition favoring technology He shows that this affinity for technology is present in the organizational cultures of all the armed services though not to the same degree By examining procurement programs for each armed service this book reveals how attempts to develop and leverage superior technology has resulted in some notable program failures high procurement costs for the latest generation of equipment with associated production cuts and the high support requirements that are causing the relative share of combat forces to shrink Lake s analysis of recent initiatives by the armed services suggests that this pattern is likely to continue with the US military remaining prone to overstretch whenever its operational tempo increases above the peacetime baseline   **Information at Sea** Timothy S. Wolters,2013-11-01 This is the first book to explore information management at sea as practiced by the U S Navy from the Civil War to World War II The brain of a modern warship is its combat information center CIC Data about friendly and enemy forces pour into this nerve center contributing to command decisions about firing maneuvering and coordinating Timothy S Wolters has written the first book to investigate the history of the CIC and the many other command and control systems adopted by the U S Navy from the Civil War to World War II What institutional ethos spurred such innovation Information at Sea tells the fascinating stories of the naval and civilian personnel who developed an array of technologies for managing information at sea from signal flares and radio to encryption machines and radar Wolters uses previously untapped archival sources to explore how one of America s most technologically oriented institutions addressed information management before the advent of the digital computer He argues that the human machine systems used to coordinate forces were as critical to naval successes in World War II as the ships and commanders more familiar to historians   Home Squadron James C Rentfrow,2014-04-15 This study examines the transformation of the United States Navy as a fighting organization that took place on the North Atlantic Station between 1874 and 1897 At the beginning of this period the warships assigned to this station were collectively administered by a rear admiral but were operationally deployed as individual units each of whose actions were directed by their captains By 1897 the North Atlantic or Home Squadron as it was known was a group of warships constituting a protean battle fleet that is an organized body moving and fighting in close order which meant that the actions of the captains were directed by a commanding admiral The process of the development of an American battle fleet resulted in the construction of a new organizational identity for the North Atlantic Squadron This process was as critical as the eventual outcome It was not linear but one in which progress in critical areas was modulated by conflicting demands that caused distraction From 1874 1888 exercises in fleet tactics under steam were carried out sporadically utilizing existing wooden cruising vessels From 1889 1894 the last wooden cruisers were decommissioned and the Squadron consisted entirely of new steel warships Ad hoc concentrations of vessels for purposes besides exercise and training retarded the continued development of doctrine and tactics necessary for a multi ship fighting capability during this time However much work was done to develop a concept of

multi ship operations From 1895 1897 the identity of the North Atlantic Squadron as a combat unit solidified Tactical exercises were held that had specific offensive and defensive wartime applications These exercises were necessary to develop a combat capability The results of this study demonstrate that the United States government had an interest in developing an offensive naval combat capability as early as the 1870 s Based on the record of the North Atlantic Squadron it is argued that imperial aspirations in the sense of possessing a capability to restrict the actions of other great powers in the Caribbean region existed prior to the War of 1898 However the process of change often resulted in the appearance of capability without the rigorous exercise necessary to possess it   War, Strategy and the Modern State, 1792–1914 Carl Cavanagh Hodge,2016-11-25 This book is a comparative study of military operations conducted my modern states between the French Revolution and World War I It examines the complex relationship between political purpose and strategy on the one hand and the challenge of realizing strategic goals through military operations on the other It argues further that following the experience of the Napoleonic Wars military strength was awarded a primary status in determining the comparative modernity of all the Great Powers that military goals came progressively to distort a sober understanding of the national interest that a genuinely political and diplomatic understanding of national strategy was lost and that these developments collectively rendered the military and political catastrophe of 1914 not inevitable yet probable   **Between Human and Machine** David A. Mindell,2003-04-30 Today we associate the relationship between feedback control and computing with Norbert Wiener s 1948 formulation of cybernetics But the theoretical and practical foundations for cybernetics control engineering and digital computing were laid earlier between the two world wars In Between Human and Machine Feedback Control and Computing before Cybernetics David A Mindell shows how the modern sciences of systems emerged from disparate engineering cultures and their convergence during World War II Mindell examines four different arenas of control systems research in the United States between the world wars naval fire control the Sperry Gyroscope Company the Bell Telephone Laboratories and Vannevar Bush s laboratory at MIT Each of these institutional sites had unique technical problems organizational imperatives and working environments and each fostered a distinct engineering culture Each also developed technologies to represent the world in a machine At the beginning of World War II President Roosevelt established the National Defense Research Committee one division of which was devoted to control systems Mindell shows how the NDRC brought together representatives from the four pre war engineering cultures and how its projects synthesized conceptions of control communications and computing By the time Wiener articulated his vision these ideas were already suffusing through engineering They would profoundly influence the digital world As a new way to conceptualize the history of computing this book will be of great interest to historians of science technology and culture as well as computer scientists and theorists Between Human and Machine Feedback Control and Computing before Cybernetics   **Silent Strategists** Manley R. Irwin,2013-09-03 Few historians have looked beyond the Teapot Dome scandal and examined the naval policies of

President Warren Harding and his secretary of navy Edwin Denby Both sponsored policies that nourished the nation s industrial infrastructure Their legacy would yield a dividend of growth production employment and ultimately national security In this revised edition Professor Manley R Irwin brings forth an innovative approach to researching these policies papers and archives adding additional research from new documents which expand enhance and complement the first edition The book argues that Harding and Denby exercised unusual foresight in preparing the navy for a war against Japan Both individuals promulgated structural changes in the department and adopted a set of management tools that would redound to the navy in its prosecution of its Pacific offensive in World War II Irwin s thorough investigation and addition of new evidence from original documents provides invaluable details and insights into the lasting legacy of the Harding administration

Testing American Sea Power Craig C. Felker,2013-03-28 The Pacific Theater in World War II depended on American sea power This power was refined between 1923 and 1940 when the U S Navy held twenty one major fleet exercises designed to develop strategy and allow officers to enact plans in an operational setting Prior to 1923 naval officers relied heavily on the theories of Capt Alfred Thayer Mahan who argued that sea control was vital to military victory best attained through use of the battleship Fleet exercises however allowed valuable practice with other military resources and theories As a direct result of these exercises the navy incorporated different technologies and updated its own outdated strategies Although World War II brought unforeseen challenges and the disadvantages of simulation exercises quickly became apparent fleet problems may have opened the door to different ideas that allowed the U S Navy ultimately to succeed Testing American Sea Power challenges the conventional wisdom that Mahanian theory held the American Navy in a steel grip Felker s research and analysis the first to concentrate on the navy s interwar exercises will make a valuable contribution to naval history for historians military professionals and naval instructors Playing War John M. Lillard,2016-05 Between the First and Second World Wars the U S Navy used the experience it had gained in battle to prepare for future wars through simulated conflicts or war games at the Naval War College In Playing War John M Lillard analyzes individual war games in detail showing how players tested new tactics and doctrines experimented with advanced technology and transformed their approaches through these war games learning lessons that would prepare them to make critical decisions in the years to come Recent histories of the interwar period explore how the U S Navy digested the impact of World War I and prepared itself for World War II However most of these works overlook or dismiss the transformational quality of the War College war games and the central role they played in preparing the navy for war To address that gap Playing War details how the interwar navy projected itself into the future through simulated conflicts Playing War recasts the reputation of the interwar War College as an agent of preparation and innovation and the war games as the instruments of that agency America, Sea Power, and the World James C. Bradford,John F. Bradford,2022-11-29 The gold standard in college level American naval history texts edited by the foremost scholar in the field In the newly revised second edition of America Sea Power and the World a team of distinguished

researchers delivers an extensive and authoritative survey of American naval history the place of the United States in world affairs and the role of that country s naval forces during peacetime and wartime Each chapter contains a comprehensive analysis of its subject as well as brief sidebars describing a key weapon or technological development of the era and a short biographical sketch of an influential leader or representative of the navy from that era The book offers extensive illustration and maps and a throughgoing emphasis on naval policy strategy roles and missions with careful attention paid to naval operations These factors given greater focus than the descriptions of battle tactics found in other texts Readers will also find A thorough introduction to sea power and the modern state system as well as the American War for Independence at sea Comprehensive explorations of the genesis of the United States Navy from 1785 to 1806 Practical discussions of the Naval War of 1812 and the Confirmation of Independence from 1807 to 1815 and the Squadron Navy as an agent of the commercial empire until 1890 Fulsome treatments of the Second World War in the Atlantic Mediterranean and the Pacific including defensive actions in the Pacific from 1937 to 1943 and offensive actions from 1943 to 1944 New chapters exclusive to the 2nd edition focused on the history of African Americans and women in the US Navy the development of joint operations and unified command and the naval history of the last two decades Perfect for undergraduate students taking courses on the naval history of the United States America Sea Power and the World Second Edition will also earn a place in the libraries of members of the general public interested in naval and military history **International Encyclopedia of Military History** James C. Bradford,2004-12 With its impressive breadth of coverage both geographically and chronologically the International Encyclopedia of Military History is the most up to date and inclusive A Z resource on military history From uniforms and military insignia worn by combatants to the brilliant military leaders and tacticians who commanded them the campaigns and wars to the weapons and equipment used in them this international and multi cultural two volume set is an accessible resource combining the latest scholarship in the field with a world perspective on military history **Ways of War** Matthew S. Muehlbauer,David J. Ulbrich,2017-11-06 From the first interactions between European and native peoples to the recent conflicts in Afghanistan and Iraq military issues have always played an important role in American history Now in its updated second edition Ways of War comprehensively explains the place of the military within the wider context of the history of the United States showing its centrality to American culture economics and politics The fifteen chapters provide a complete survey of the American military s evolution that is designed for semester length courses Features of the revised and fully updated second edition include Chronological and comprehensive coverage of North American conflicts in the seventeenth century and all wars undertaken by the United States New or expanded sections on Non English Colonization in Northeast North America the Beaver Wars Pontiac s War causes of the American Revolution borderlands conflict from 1848 to 1865 causes of the American Civil War Reconstruction the Meuse Argonne Campaign Barack Obama s second term as president the Syrian Civil War and the rise of the Islamic State 50 revised maps 20 new images chapter timelines identifying key events

and text boxes providing biographical information and first person accounts A companion website featuring a testbank of essay and multiple choice questions for instructors as well as student study resources such as an interactive timeline chapter summaries annotated further readings links to online resources flashcards and a glossary of key terms Extensively illustrated and written by experienced instructors the second edition of Ways of War remains essential reading for all students of American Military History   *Other People's Wars* Brent L. Sterling,2021-03-01 Other People s Wars explores key US efforts involving direct observation missions and post conflict investigations throughout its history Sterling shows how initiatives to learn from other nations wars can yield significant benefits emphasizing comprehensive qualitative learning to foster better military preparedness and adaptability   **Defence Planning and Uncertainty** Stephan Frühling,2014-04-24 How can countries decide what kind of military forces they need if threats are uncertain and history is full of strategic surprises This is a question that is more pertinent than ever as countries across the Asia Pacific are faced with the military and economic rise of China Uncertainty is inherent in defence planning but different types of uncertainty mean that countries need to approach decisions about military force structure in different ways This book examines four different basic frameworks for defence planning and demonstrates how states can make decisions coherently about the structure and posture of their defence forces despite strategic uncertainty It draws on case studies from the United States Australian and New Zealand each of which developed key concepts for their particular circumstances and risk perception in Asia Success as well as failure in developing coherent defence planning frameworks holds lessons for the United States and other countries as they consider how best to structure their military forces for the uncertain challenges of the future   **Re-inventing the Ship** Don Leggett,2016-04-08 Ships have histories that are interwoven with the human fabric of the maritime world In the long nineteenth century these histories revolved around the re invention of these once familiar objects in a period in which Britain became a major maritime power This multi disciplinary volume deploys different historical geographical cultural and literary perspectives to examine this transformation and to offer a series of interconnected considerations of maritime technology and culture in a period of significant and lasting change Its ten authors reveal the processes involved through the eyes and hands of a range of actors including naval architects dockyard workers commercial shipowners and Navy officers By locating the ship s re invention within the contexts of builders owners and users they illustrate the ways in which material elements as well as scientific artisan and seafaring ideas and practices were bound together in the construction of ships complex identities

   Torpedo Katherine C. Epstein,2014-01-01 When President Eisenhower referred to the military industrial complex in his 1961 Farewell Address he summed up in a phrase the merger of government and industry that dominated the Cold War United States In this bold reappraisal Katherine Epstein uncovers the origins of the military industrial complex in the decades preceding World War I as the United States and Great Britain struggled to perfect a crucial new weapon the self propelled torpedo Torpedoes threatened to upend the delicate balance among the world s naval powers they were bought

and sold in a global marketplace and they were cutting edge industrial technologies But building them required substantial capital investments and close collaboration among scientists engineers businessmen and naval officers To address these formidable challenges the U S and British navies created a new procurement paradigm instead of buying finished armaments from the private sector or developing them from scratch at public expense they began to invest in private sector research and development The inventions emerging from torpedo R D sparked legal battles over intellectual property rights that reshaped national security law Torpedo blends military legal and business history with the history of science and technology to recast our understanding of defense contracting and the demands of modern warfare **"Execute against Japan"** Joel Ira Holwitt,2009-04-01 until now how the Navy managed to instantaneously move from the overt legal restrictions of the naval arms treaties that bound submarines to the cruiser rules of the eighteenth century to a declaration of unrestricted submarine warfare against Japan immediately after the attack on Pearl Harbor has never been explained Lieutenant Holwitt has dissected this process and has created a compelling story of who did what when and to whom The Submarine Review Execute against Japan should be required reading for naval officers especially in submarine wardrooms as well as for anyone interested in history policy or international law Adm James P Wisecup President US Naval War College for Naval War College Review Although the policy of unrestricted air and submarine warfare proved critical to the Pacific war s course this splendid work is the first comprehensive account of its origins illustrating that historians have by no means exhausted questions about this conflict World War II Magazine US Navy submarine officer Joel Ira Holwitt has performed an impressive feat with this book Holwitt is to be commended for not shying away from moral judgments This is a superb book that fully explains how the United States came to adopt a strategy regarded by many as illegal and tantamount to terror Military Review The Optical Munitions Industry in Great Britain, 1888–1923 Stephen C Sambrook,2015-10-06 Running counter to the general decline of technological industries in post Victorian Britain optical munitions provides an important previously overlooked study into the business of manufacturing The Oxford Encyclopedia of American Military and Diplomatic History Timothy J. Lynch,2013 Entries written by renowned diplomatic and military historians as well as key scholars in international relations Provides assessments and analyses of key episodes issues and actors in the military and diplomatic history of the United States Based on the award winning Oxford Companion to United States History Comprehensive collection of entries that span the founding of the U S to its present state Offers a wide range of perspectives to provide an encompassing context of the United States military and diplomatic legacies Expansive bibliographies and suggested readings for each article to aid in research The Oxford Encyclopedia of American Military and Diplomatic History a two volume set will offer both assessment and analysis of the key episodes issues and actors in the military and diplomatic history of the United States At a time of war in which ongoing efforts to recalibrate American diplomacy are as imperative as they are perilous the Oxford Encyclopedia will present itself as the first recourse for scholars wishing to deepen their understanding of the crucial features of the

historical and contemporary foreign policy landscape and its perennially martial components Entries will be written by the top diplomatic and military historians and key scholars of international relations from within the American academy supplemented as is appropriate for an encyclopedia of diplomacy with entries from foreign based academics in the United Kingdom and elsewhere The crucial importance of the subject is reflected in the popularity of university courses dedicated to diplomatic and military history and the enduring appeal of international relations IR as a political science discipline drawing on both The Oxford Encyclopedia will be a basic reference tool across both disciplines a potentially very significant market Readership University level undergraduate and graduate students in History   The A to Z of the Progressive Era Catherine Cocks,Peter C. Holloran,Alan Lessoff,2009-09-24 The Progressive Era the period in the United States between 1898 and 1917 was a time of great social political and industrial change Following the Spanish American War of 1898 an event that signaled the emergence of the United States as a great power the country soon was involved in its first overseas guerrilla war in the Philippines Vast changes in communications and transportation immigration and migration patterns social mores gender roles family structure class structure work patterns business methods education intellectual life religion the professions technology science medicine and much else were transforming the scope and feel of people s lives and relationships In many ways what happened in this era set the agenda for the rest of the 20th century The A to Z of the Progressive Era is the most comprehensive and coherent reference work on the Progressive Era Through its chronology introductory essay bibliography appendixes and hundreds of cross referenced dictionary entries on the key events people organizations and ideas of the period this resource is a lively complete and accessible overview of this significant era

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