

HELLIONS OF THE DEEP

The Development of American Torpedoes
in World War II

ROBERT GANNON

Hellions Of The Deep The Development Of American Torpedoes In World War Ii

Robert Gannon



Hellions Of The Deep The Development Of American Torpedoes In World War II:

Hellions of the Deep Robert Gannon, 1996-04-15 Ultimately World War II was the first war won by technology but within only a few weeks after the war began the U S Navy realized its torpedo program was a dismal failure Submarine skippers reported that most of their torpedoes were either missing the targets or failing to explode if they did hit The United States had to work fast if it expected to compete with the Japanese Long Lance the biggest and fastest torpedo in the world and Germany's electric and sonar models *Hellions of the Deep* tells the dramatic story of how Navy planners threw aside the careful procedures of peacetime science and initiated radical research gathering together the nation's best scientists and engineers in huge research centers and giving them freedom of experimentation to create sophisticated weaponry with a single goal winning the war The largest center for torpedo work was a requisitioned gymnasium at Harvard University where the most famous names in science worked with the best graduate students from all around the country at the business of war They had to produce tangible weapons to consider production and supply tactics to take orders from the military and in many cases also to teach the military how to use the weapons they developed World War II grew into a chess match played by scientists and physicists and it became the only war in history to be won by weapons invented during the conflict For this book Robert Gannon conducted numerous interviews over a twenty year period with scientists engineers physicists submarine skippers and Navy bureaucrats all involved in the development of the advanced weapons technology that won the war While the search for new weapons was deadly serious stretching imagination and resourcefulness to the limit each day the need was obvious American ships were being blown up daily just outside the Boston harbor These oral histories reveal that in retrospect surprising even to those who went through it the search for the hellions of the deep was for many the most exciting period of their lives

Foil, Saber, and Épée Fencing: Skills, Safety, Operations, and Responsibilities Maxwell R. Garret, 1994

Hellions of the Deep Robert Gannon, 1996 Ultimately World War II was the first war won by technology but within only a few weeks after the war began the U S Navy realized its torpedo program was a dismal failure Submarine skippers reported that most of their torpedoes were either missing the targets or failing to explode if they did hit The United States had to work fast if it expected to compete with the Japanese Long Lance the biggest and fastest torpedo in the world and Germany's electric and sonar models *Hellions of the Deep* tells the dramatic story of how Navy planners threw aside the careful procedures of peacetime science and initiated radical research gathering together the nation's best scientists and engineers in huge research centers and giving them freedom of experimentation to create sophisticated weaponry with a single goal winning the war The largest center for torpedo work was a requisitioned gymnasium at Harvard University where the most famous names in science worked with the best graduate students from all around the country at the business of war They had to produce tangible weapons to consider production and supply tactics to take orders from the military and in many cases also to teach the military how to use the weapons they developed World War II grew into a chess match played by

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central to their wartime memories Perhaps as a result of such a positive experience the Allied forces became much more successful in combat Intertwining social and military history Fremantle's Submarines relates how courage cooperation and community made Fremantle arguably the most successful military outpost of World War II from the standpoint of troop morale

Almanac of American Military History Spencer C. Tucker, 2012-11-21 This almanac provides a comprehensive chronological overview of all American military history serving as the standard reference work of its type Almanac of American Military History is yet another reference work from acclaimed historian Dr Spencer C Tucker and ABC CLIO offering an unprecedented resource for a wide range of students and researchers A comprehensive four volume title this almanac traces all of American military history from the European voyages of discovery through 2011 chronicling the pivotal moments that have shaped the United States into the country it is today In addition to documenting key events this title presents biographies of more than 250 key individuals and provides information on more than 250 historically significant technologies and weapons systems A detailed glossary is included as are discussions of ranks and military awards and decorations Divided into conflict periods each chapter includes a detailed chronology reference entry sidebars statistical information primary source documents and a bibliography

The Mighty Moo Nathan Canestaro, 2024-06-11 The Mighty Moo is the tale of how a scrappy little World War II aircraft carrier and its untested crew earned a distinguished combat record and beat incredible odds to earn 12 battle stars in the Pacific The USS Cowpens and her crew weren't your typical heroes She was a flattop that the US Navy initially didn't want with a captain nearly scapegoated for the loss of his last command pilots who self trained on the planes they would fly into combat and sailors that had been in uniform barely longer than the ship had been afloat Despite their humble origins Cowpens and her band of second string reservists and citizen sailors served with distinction fighting in nearly every major carrier operation from 1943 to 1945 including the Battles of the Philippine Sea and Leyte Gulf Together they faced a deadly typhoon that brought the ship to the verge of capsizing and at war's end there was only one US aircraft carrier in Tokyo Bay to witness the Japanese surrender The Mighty Moo In the years to follow Cowpens service has become the wellspring for a remarkable modern tradition both within the US Navy and the small Southern town that still celebrates her legacy with a festival every year The Mighty Moo is a biography of a World War II aircraft carrier as told through the voices of its heroic crew a Band of Brothers at sea

A War To Be Won Williamson Murray, Allan Reed Millett, 2009-06-30 In the course of the twentieth century no war looms as profoundly transformative or as destructive as World War II Its global scope and human toll reveal the true face of modern industrialized warfare Now for the first time we have a comprehensive single volume account of how and why this global conflict evolved as it did A War To Be Won is a unique and powerful operational history of the Second World War that tells the full story of battle on land on sea and in the air Williamson Murray and Allan R Millett analyze the operations and tactics that defined the conduct of the war in both the European and Pacific Theaters Moving between the war room and the battlefield we see how

strategies were crafted and revised and how the multitudes of combat troops struggled to discharge their orders The authors present incisive portraits of the military leaders on both sides of the struggle demonstrating the ambiguities they faced the opportunities they took and those they missed Throughout we see the relationship between the actual operations of the war and their political and moral implications A War To Be Won is the culmination of decades of research by two of America's premier military historians It avoids a celebratory view of the war but preserves a profound respect for the problems the Allies faced and overcame as well as a realistic assessment of the Axis accomplishments and failures It is the essential military history of World War II from the Sino Japanese War in 1937 to the surrender of Japan in 1945 for students scholars and general readers alike

Annapolis Goes to War Craig L. Symonds, 2025 America's preeminent naval historian offers a history of the Second World War based on the experiences of the young officers fresh out of the United States Naval Academy who served on its front lines They arrived in Annapolis as teenagers the year Hitler re-occupied the Rhineland and graduated as young men the week the British Army evacuated Dunkirk *Annapolis Goes to War* tells the story of their four transformative years at the Naval Academy and then four more annealing years in the cauldron of war More than a hundred of them were on duty in Pearl Harbor on December 7, 1941 Ten of them died that day seven remain entombed in the USS Arizona still Over the next four years these former Midshipmen participated in virtually every significant engagement in both the Atlantic and the Pacific from Pearl Harbor to Tokyo Bay from North Africa to Normandy They were at the front edge of the war in battleships carriers destroyers submarines and airplanes and led Marine Corps units ashore Some experienced the war as prisoners of the Japanese Fifty-six of them died in the Second World War the greatest wartime loss any service academy ever experienced Taking readers into and through the lives of these young men in wartime Craig Symonds offers a poignant and powerful story of adjustment growth pain loss and eventually triumph Using their diaries memoirs and letters he evokes unforgettably their trials and bonds their loss of innocence and their discovery of the meaning of sacrifice *Annapolis Goes to War* is essential reading for anyone seeking to understand the experience of fighting the bloodiest war in human history

Surface and Destroy Michael Sturma, 2011-03-25 World War II submariners rarely experienced anything as exhilarating or horrifying as the surface gun attack Between the ocean floor and the rolling whitecaps above submarines patrolled a dark abyss in a fusion of silence shadows and steel firing around eleven thousand torpedoes sinking Japanese men of war and more than one thousand merchant ships But the anonymity and simplicity of the stealthy torpedo attack hid the savagery of warfare a stark difference from the brutality of the surface gun maneuver As the submarine shot through the surface of the water confined sailors scrambled through the hatches armed with large caliber guns and met the enemy face to face *Surface and Destroy* The Submarine Gun War in the Pacific reveals the nature of submarine warfare in the Pacific Ocean during World War II and investigates the challenges of facing the enemy on the surface The surface battle amplified the realities of war bringing submariners into close contact with survivors and potential prisoners of war As Japan's larger

ships disappeared from the Pacific theater American submarines turned their attention to smaller craft such as patrol boats schooners sampans and junks Some officers refused to attack enemy vessels of questionable value while others attacked reluctantly and tried to minimize casualties Michael Sturma focuses on the submariners reactions and attitudes toward their victims exploring the sailors personal standards of morality and their ability to wage total war Surface and Destroy is a thorough analysis of the submariner experience and the effects of surface attacks on the war in the Pacific offering a compelling study of the battles that became intolerably personal

Midway Submerged Mark W. Allen, 2023-05-01 Naval history enthusiasts and military historians who enjoy taking deeper dives into the backgrounds of well known battles particularly concerning tactics and leadership will appreciate this read The book is enriched with well captioned photos diagrams and very detailed appendices which makes it an excellent reference work HistoryNet Most books gloss over submarines at Midway and if they are mentioned at all conclude they failed miserably and had little impact on the outcome of the battle It is undeniable that carrier aviation and intelligence saved the day but the role of the submarine was an important one in defense of an anticipated amphibious assault Midway Submerged is a comprehensive examination of a little known aspect of this pivotal naval battle explaining how Nimitz used his submarines at Midway and the Japanese misused theirs based on a flawed tactical plan Based on in depth archival research not only into the battle itself but also submarine design and construction and tactical and operational doctrine for both the United States and Japan it brings a whole new dimension to the discussion of the battle of Midway It examines the intended role of the submarine in the plans and doctrine of both navies and what the submarines were expected to accomplish for both fleets during the battle before assessing the actual accomplishments successes and failures of the submarine forces on both sides Of particular importance the book offers an analysis of how well these vessels fulfilled the expectations placed on them by their respective naval planners concluding that submarines played a more important role in the outcome than has been previously understood

Hellships Down Michael Sturma, 2021-04-02 On 12 September 1944 a wolfpack of U S submarines attacked the Japanese convoy HI 72 in the South China Sea Among the ships sunk were two carrying Allied prisoners of war Men who had already endured the trials of Japanese captivity faced a renewed struggle for survival at sea This book tells the broader story of the HI 72 convoy through the stories of two survivors Arthur Bancroft who was rescued by an American submarine and Charles Rowley Richards who was rescued by the Japanese The story of these men represents the thousands of Allied POWs who suffered not only the atrocious conditions of these Japanese hellships but also the terror of friendly fire from their own side s submarines For the first time the personal political and legal aftermath of these men s experiences is fully detailed At its heart this is a story of survival Charting the survivors fates from rescue to their attempts at retribution this book reveals the trauma that continued long after the war was over

Tower of Skulls Richard B. Frank, 2020-03-03 A sweeping epic Promises to do for the war in the Pacific what Rick Atkinson did for Europe James M Scott author of Rampage In 1937 the swath of the globe east from

India to the Pacific Ocean encompassed half the world's population Japan's onslaught into China that year unleashed a tidal wave of events that fundamentally transformed this region and killed about twenty five million people This extraordinary World War II narrative vividly portrays the battles across this entire region and links those struggles on many levels with their profound twenty first century legacies In this first volume of a trilogy award winning historian Richard B Frank draws on rich archival research and recently discovered documentary evidence to tell an epic story that gave birth to the world we live in now

The Unknown Battle of Midway Alvin Kernan, 2019-06-18 A memoir and more Kernan brings this maritime battle superbly to life And he narrates the air assault in gripping detail The Wall Street Journal The Battle of Midway is considered the greatest US naval victory but behind the luster is the devastation of the American torpedo squadrons Of the 51 planes sent to attack Japanese carriers only 7 returned and of the 127 aircrew only 29 survived Not a single torpedo hit its target A story of avoidable mistakes and flawed planning The Unknown Battle of Midway reveals the enormous failures that led to the destruction of four torpedo squadrons but were omitted from official naval reports the planes that ran out of gas the torpedoes that didn't work the pilots who had never dropped torpedoes and the breakdown of the attack plan Alvin Kernan who was present at the battle has written a troubling but persuasive analysis of these and other little publicized aspects of this great battle The standard navy tactics for carrier warfare are revealed in tragic contrast to the actual conduct of the battle and the after action reports of the ships and squadrons involved An incisive and laconic writer Kernan knows his facts and presents them with deep feeling A World War II must read Booklist I read The Unknown Battle of Midway in one sitting It is a momentous piece of work reeking of the authenticity of carrier warfare as experienced by the flight crews Sir John Keegan author of A History of Warfare An emotionally powerful story not merely one of war but of its lasting effects The Times Literary Supplement

Find 'Em, Chase 'Em, Sink 'Em Mike Ostlund, 2011-11-08 Now in paperback revised and updated the stirring and authoritative account of one of World War II's most highly decorated submarines Find Em Chase Em Sink Em is the first book to recount the tragic and mysterious loss of the World War II submarine USS Gudgeon In April 1944 the highly decorated submarine USS Gudgeon slipped beneath the waves in one of the most treacherous patrol areas in the most dangerous military service during World War II Neither the Gudgeon nor the crew was ever seen again Author Mike Ostlund's Uncle Bill the operator of a farm implements business was aboard that ship as a lieutenant junior grade Through extensive research of patrol reports in U S and Japanese naval archives interviews with veterans who had served aboard the Gudgeon before its final patrol and the personal effects of the lost men's relatives Ostlund has assembled the most accurate account yet of this remarkably successful submarine's exploits of the men aboard from steward to captain and of what we now know about her demise Find Em Chase Em Sink Em details the memories and life lessons of the young men who went to sea aboard Gudgeon before its last patrol knowing hardly anything and came home having seen too much

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** **Submarine**

Operational Effectiveness in the 20th Century Captain John F. O'Connell, USN (RET.), 2011-08-18. The submarine emerged as a serious weapons system during the First World War, 1914-1918. During that conflict, Germany, with its unrestricted submarine warfare campaign of 1917, nearly drove Great Britain to the negotiating table. Its U-boats sank 6,196 ships of 13,438,632 gross register tons. Despite post-war attempts to ban the submarine from warfare, it survived. Both Italy and Germany used submarines covertly during the Spanish Civil War, 1936-1939. This book, Part Two of a series, discusses the use of submarines during World War Two, 1939-1945, and their effectiveness. It focuses principally on two strategic submarine campaigns. The first is about German U-boats against British and neutral commerce. That campaign finally failed during the Battle of the Atlantic in 1943. The second deals with American submarines against Japanese shipping from Southeast Asia to the home islands, a campaign that successfully isolated Japan from its sources of raw materials and foodstuffs during 1944 and effectively defeated Japan. **Defense Budgeting for a Safer World** Michael J. Boskin, John N. Rader, Kiran

Sridhar, 2023-11-01. America is facing the most dangerous and complex geopolitical environment since World War II. Ensuring the adequacy and flexibility of our defense budget is essential to keeping our nation secure and the world safe for global democracy. *Defense Budgeting for a Safer World* brings together the ideas, perspectives, and solutions of America's most renowned experts on national security and the defense budget. The volume originates from a conference held at the Hoover Institution in early 2023 and reflects the presentations, discussions, and debates among military and civilian leaders. Drawing on their remarkable experience leading the Pentagon, the services, Congress, and academe, these experts lay out the key

priorities in reforming realigning and rightsizing the budget amid current challenges Several topics converge national security threats strategy technology and innovation personnel reform options and the politics of the defense budget This unique compilation covers each of the major areas of debate in forging and sustaining a defense budget capable of supporting the nation s security needs

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