

NAVAL FIREPOWER

**BATTLESHIP GUNS AND GUNNERY
IN THE DREADNOUGHT ERA**



NORMAN FRIEDMAN

Naval Firepower Battleship Guns And Gunnery In The Dreadnought Era

Vincent OHara,Trent Hone



Naval Firepower Battleship Guns And Gunnery In The Dreadnought Era:

Naval Firepower Norman Friedman, 2013-08-20 An in depth history of naval battleship firepower from before World War I to the end of World War II by America s leading naval analyst For more than half a century the big gun was the arbiter of naval power but it was useless if it could not hit the target fast and hard enough to prevent the enemy doing the same Because the naval gun platform was itself in motion finding a firing solution was a significant problem exacerbated when gun sizes increased fighting ranges lengthened and seemingly minor issues like wind velocity had to be considered To speed up the process and eliminate human error navies sought a reliable mechanical calculation This heavily illustrated book outlines for the first time in layman s terms the complex subject of fire control as it dominated battleship and cruiser design from before World War I to the end of the dreadnought era Covering the directors range finders and electro mechanical computers invented to solve the problems author Norman Friedman explains not only how the technology shaped and was shaped by the tactics involved but also analyzes their effectiveness in battle His examination of the controversy surrounding Jutland and the relative merits of competing fire control systems draws surprising conclusions He also reassesses many other major gun actions such as the battles between the Royal Navy and the Bismarck and the U S Navy actions in the Solomons and at Surigao Strait All major navies are covered and the story concludes at the end of World War II with the impact of radar

Firepower Norman Friedman, 2007-10 For half a century and more the big gun was the arbiter of naval power but it was useless if it could not hit the target rapidly and heavily enough to prevent the enemy doing the same From the late 19th century navies sought to move from estimation to mechanical calculation in an attempt to speed up the process **British Naval Gun Mountings** Ian Buxton, 2025-01-16 Heavy gun mountings dominated the design of larger warships on account of their size weight protection and cost In the 1890s British gun mountings developed rapidly with new gun technologies wire winding cordite and the rise of the two major ordnance companies Armstrongs and Vickers producing large numbers of weapons for the Royal Navy and for worldwide export But by 1960 aircraft and guided missiles had made the big gun redundant so the period from 1890s to 1950s covering the two world wars is the most historically significant The focus of this book is on the larger mountings and those fitted in the larger ships the massively engineered non transferable mountings whose complexities and associated magazines took up a huge volume of the ship unlike the smaller calibre transferable mountings mostly bolted to the deck Such mountings could weigh over 1000 tons take two years to build and make up a quarter of the cost of a battleship Although they existed in many variants there were only about forty basic mountings from 4 5in to 18in calibre fitted to the majority of the RN s larger ships so these take up the bulk of the book For each well illustrated handbooks with colored plates were produced but are largely inaccessible to the public so about 50 of these highly detailed drawings are reproduced at large scale The smaller mountings and the guns themselves each have a separate chapter Although the impact of the book is largely visual there is an expert account of the design construction and

installation of such mountings and their manufacturers supported by a range of internal and close up photographs The reference value of the work is enhanced by a comprehensive table of mountings and their characteristics plus a list of all the mountings made by Vickers of Barrow between 1900 and 1950 Providing easy access to so much rarely seen material this handsome volume will appeal to modelmakers ship enthusiasts and technical historians **The Battleship Builders** Ian Johnston, Ian Buxton, 2013-05-08 How shipbuilders engine manufacturers and more united to build Britain's Grand Fleet Superbly written One of the best naval titles I have seen Marine News The launch in 1906 of HMS Dreadnought the world's first all big gun battleship rendered all existing battle fleets obsolete but at the same time it wiped out the Royal Navy's numerical advantage so expensively maintained for decades Already locked in the same arms race with Germany Britain urgently needed to build an entirely new battle fleet of these larger more complex and costlier vessels In this she succeeded spectacularly in little over a decade fifty such ships were completed almost exactly double what Germany achieved It was only made possible by a vast industrial nexus of shipbuilders engine manufacturers armament fleets and specialist armor producers whose contribution to the Grand Fleet is too often ignored This heroic achievement and how it was done is the subject of this book It charts the rise of the large industrial conglomerates that were key to this success looks at the reaction to fast moving technical changes and analyzes the politics of funding this vast national effort both before and beyond the Great War It also attempts to assess the true cost and value of the Grand Fleet in terms of the resources consumed And finally by way of contrast it describes the effects of the postwar recession industrial contraction and the very different responses to rearmament in the run up to the Second World War Includes photographs Dreadnoughts and Super-Dreadnoughts Chris McNab, 2021-12-08 A heavily illustrated account of the evolution design and deployment of dreadnought battleships When HMS Dreadnought was commissioned into the Royal Navy in 1906 this revolutionary new class of big gun iron clad warship immediately changed the face of naval warfare rendering all other battleships worldwide obsolete The Admiralty realised that as soon as the ship was revealed to the global naval community Britain would be in a race to stay ahead and so the first dreadnoughts were built in record time While there were those who regarded the vessel as a triumphant revolution in naval design the dreadnought initially had its critics including those who thought its slower heavier guns left it vulnerable to the secondary armament of other warships Nevertheless other countries notably Germany and the United States soon began to lay down dreadnoughts The culmination of this arms race would be the confrontation of the British and German fleets at the Battle of Jutland in May 1916 the greatest clash of naval firepower in history This book gives detailed insights into the design operation and combat history of these incredible vessels River Plate 1939 Angus Konstam, 2016-08-25 Days before the outbreak of World War II a handful of German commerce raiders put out to sea to prey on Allied merchantmen Amongst them was the Panzerschiff armoured ship Graf Spee a formidable warship that boasted the firepower of a battleship but the size speed and range of a cruiser When World War II commenced under the command of

Captain Langsdorff the Graf Spee began a hunting spree across the South Atlantic and the Indian Ocean that eventually took her to the River Plate in search of her next victim an Allied convoy Instead she found three Royal Navy cruisers under the command of Commodore Harwood eager to put an end to the pocket battleship that had been terrorizing Allied merchant ships Featuring full colour artwork archive photographs and meticulous research this comprehensive volume explores the thrilling story behind the Battle of the River Plate an engagement that unquestionably demonstrated the effectiveness of British seapower and diplomacy on an international stage Understanding Victory Geoffrey Till,2014-01-15 Using four warship centered examples this book shows how naval battles are won or lost and how technological advantage is rarely as decisive in defeat or victory as is often claimed Providing a unique assessment of naval strategy and historic outcomes across centuries of warfare Understanding Victory Naval Operations from Trafalgar to the Falklands presents four case studies that examine each ship based battle narrative to expose and analyze the factors that contributed to each side s success or defeat The work opens with an overview of the general causes of success and failure in naval operations Each case study starts with a detailed narrative of the battle and then reviews the conflict from the key perspectives identified in the introduction These classic examples of naval warfare underscore how the outcome of naval operations is often predetermined by the clarity and quality of the mission aim and point out striking constants in naval warfare despite the obvious differences in military technologies over a long span of time Allied Warships vs the Atlantic Wall Steven J. Zaloga,2023-09-28 A fascinating exploration of the often overlooked gunnery duels between the formidable artillery weapons in the Atlantic Wall defences and the mighty US and Royal Navy battleships Amphibious landings were an essential tool of Allied military strategy in World War II The Royal Navy and the US Navy provided operational mobility that allowed the Allies to strike unexpectedly across the vast coastlines of the Mediterranean and Atlantic Nazi Germany did not have sufficient naval power to seriously contest this and consequently relied heavily on the huge and costly Atlantic Wall fortification programme By 1944 the French coast featured more than 1 900 coastal guns over 75mm in calibre At the heart of this fascinating book by renowned military historian Steven J Zaloga is the clash between Batterie Hamburg defending Cherbourg and the Allied naval bombardment group led by the battleship USS Texas on 25 June 1944 Stunning artworks reveal details of the design construction and ammunition of the weapons involved and the locations of important sites are shown on maps The author also explores the evolution of Allied naval doctrine which was based on repeated experiences during a succession of amphibious operations and which enabled the Allies to successfully overcome the coastal gun threat Illustrated with over 50 period photographs the result is a fascinating exploration of a key battle during the Allied invasion of mainland Europe **Over the Top** Spencer Jones,Peter Tsouras,2014-10-30 Although separated from the modern reader by a full century the First World War continues to generate controversy and interest as the great event upon which modern history pivoted Not only did the war cull the European peoples of some of their best and brightest it also led to the destruction of the Austro Hungarian German Ottoman

and Russian empires and paved the way for the Second World War This thought provoking book explores ten alternate scenarios in which the course of the war is changed forever How would the war have changed had the Germans not attacked France but turned their main thrust against Russia had the Greeks joined the allies at Gallipoli or had the British severed the communications of the Ottoman Empire at Alexandretta What if there was a more decisive outcome at Jutland if the alternative plans for the Battle of the Somme in 1916 had been put into effect or if the Americans intervened in 1915 rather than 1917 Expertly written by leading military historians this is a compelling and credible look at what might have been [Clash of Fleets](#) Vincent O'Hara, Leonard R Heinz, 2017-04-15 Clash of Fleets is an operational history that records every naval engagement fought between major surface warships during World War I Much more than a catalog of combat facts Clash of Fleets explores why battles occurred how the different navies fought and how combat advanced doctrine and affected the development and application of technology The result is a holistic overview of the war at sea as it affected all nations and all theaters of war A work of this scope is unprecedented Organized into seven chapters the authors first introduce the technology weapons ships and the doctrine that governed naval warfare in 1914 The next five chapters explore each year of the war and are subdivided into sections corresponding to major geographic areas This arrangement allows the massive sweep of action to be presented in a structured and easy to follow format that includes engagements fought by the Austro-Hungarian British French German Ottoman and Russian Navies in the Adriatic Aegean Baltic Black Mediterranean and North Seas as well as the Atlantic Indian and Pacific Oceans The role of surface combat in the Great War is analyzed and these actions are compared to major naval wars before and after In addition to providing detailed descriptions of actions in their historical perspectives O'Hara and Heinz advance several themes including the notion that World War I was a war of navies as much as a war of armies They explain that surface combat had a major impact on all aspects of the naval war and on the course of the war in general Finally Clash of Fleets illustrates that systems developed in peace do not always work as expected in war that some are not used as anticipated and that others became unexpectedly important There is much for today's naval professional to consider in the naval conflict that occurred a century ago **The Modern Cruiser** Robert C. Stern, 2020-03-30 An entertaining and informative review of the evolution of one of the most important classes of warship from the technology of WWII into the missile age Firetrench Cruisers probably vary more in their characteristics than any other warship type and have certainly been subject to the most convoluted development There was always a basic tension between quantity and quality between numbers and unit size but at a more detailed level every one of the naval powers made different demands of their cruiser designers This makes the story of cruiser evolution in the world's major navies fascinating but complex This book sets out to provide a coherent history of the fortunes of this ship type in the twentieth century beginning with a brief summary of development before the First World War and an account of a few notable cruiser actions during that conflict that helped define what cruisers would look like in the post-war world The core of the book is devoted to

the impact of the naval disarmament treaty process which concentrated to a great extent on attempting to define limits to the numbers and size of cruisers that could be built in the process creating the treaty cruiser as a type that had never existed before and that existed solely because of the treaty process How the cruisers of the treaty era performed in the Second World War forms the final focus of this interesting well written and well grounded book which concludes with a look at the fate of the cruiser type since 1945 Warship International The result is probably the best single volume account of the subject to date

Six Victories Vincent O'Hara, 2019-10-15 Six Victories examines one of the most interesting and instructive naval campaigns of World War II the war on traffic in the Mediterranean during the fall and winter of 1941-42 It is a cautionary tale of how sea power was practiced and how it shifted 180 degrees overnight Based on British and Italian archival sources the book emphasizes strategic context the role of intelligence and the campaign's logistics In October 1941 the British Admiralty based a surface strike force in Malta to attack Axis sea lanes between Italy and Africa Aided by Ultra intelligence submarines and bombers based in Malta this force dominated the Central Mediterranean From the end of October through the middle of December 1941 less than a third of the supplies shipped from Italian ports arrived in Libya Shortages of ammunition and fuel finally compelled the Afrika Korps to retreat four hundred miles Then in the space of thirty hours this all changed First Italian naval forces broke the blockade by fighting through a major convoy that arrived in time to blunt the British advance next the strike force plowed into a minefield laid by Italian cruisers and finally in a daring attack Italian commandos crippled the Mediterranean Fleet's battleships in port The swing in fortune was immediate and dramatic Six Victories breaks new ground in the historiography of World War II A compelling story it relates lessons that are relevant today and should be required reading for all who practice the art of power at sea and for those who want to understand the intricate and interrelated factors that are the foundations of military success

Fighting the Great War at Sea Norman Friedman, 2014-10-22 Winner of the John Lyman Book Award for Naval and Maritime Science and Technology A compelling and convincing historical analysis of World War I Navy News While the overriding image of the First World War is of the bloody stalemate on the western front the overall shape of the war arose out of its maritime character It was essentially a struggle about access to worldwide resources most clearly seen in Germany's desperate attempts to counter the American industrial threat which ultimately drew the United States into the war This radical new book concentrates on the way in which each side tried to use or deny the sea to the other and in so doing describes rapid wartime changes not only in ship and weapons technology but also in the way naval warfare was envisaged and fought Melding strategic technical and tactical aspects Friedman approaches the First World War from a fresh perspective and demonstrates how its perceived lessons dominated the way navies prepared for the Second World War Friedman is a master of the evolution of naval strategy tactics and technology a rewarding read that will leave many wanting to return again and again just to see what they might have missed the first time Australian Naval Institute Dr Friedman's research credentials are impeccable and the huge amount of

factual detail he has unearthed will be sure to delight many there is nothing comparable in either depth or scope out there and for this reason if no other this book is likely to become a standard work on the naval aspects of the Great War Naval War College Review

Fighting in the Dark Vincent OHara,Trent Hone,2023-04-15 Before the twentieth century ships when relied upon visual signaling vessels beyond range of sight or a cannon shot were blind deaf and dumb in the dark making night battles at sea rare and near always accidental The introduction of certain technologies like the torpedo the searchlight radio and then radar transformed naval warfare by making night combat feasible and in some cases desirable The process by which navies integrated these new tools of war and turned the dark into a medium for effective combat however was long and difficult Fighting in the Dark tells the story of surface naval combat at night from the Russo Japanese War through World War II The book is about the process of confronting and mastering problems brought on by technological change during war It does this by examining seven periods focusing on the Imperial Russian Navy in 1904 1905 the Imperial German Navy from 1914 1918 the Royal Navy from 1916 1939 the Regia Marina from 1940 1943 the Imperial Japanese Navy in 1942 the U S Navy in 1943 1944 and the Royal Navy and Royal Canadian Navy from 1943 1944 The chapters are written by authors hailing from Australia Canada Italy and the United States all recognized masters in their subject

The End of Glory Bruce Taylor,2012-04-03 The career of the legendary British battlecruiser is vividly recounted from its commissioning to its tragic end in this naval history The HMS Hood was the glory of the Royal Navy In The End of Glory historian Bruce Taylor combines in depth research and thrilling narrative to tell its story For twenty years Hood symbolized the Royal Navy during the twilight years of the British Empire Yet in 1941 it was destroyed in seconds by the battleship Bismarck a catastrophe that shattered the morale the British public Through official documents as well as the personal accounts and reminiscences of more than 150 crewmen this volume offers a vivid portrait of this naval icon An insider s view of a warship in peace and war The End of Glory not only paints an intimate picture of everyday life but deals with controversial issues such as the Invergordon mutiny escapades ashore and afloat the Christmas mutiny of 1940 and the terrible conditions onboard in war This coverage based on so many original sources makes for a truly compelling story that neither historian enthusiast nor general reader will find easy to put down

Royal Navy Home Fleet 1939-41 Angus Konstam,2024-03-28 Packed with illustrations this is a new history and analysis of how the Royal Navy s most important fleet operated and fought the German Navy in the crucial first years of World War II Throughout its history the Royal Navy s most powerful fleet has been the one guarding home waters In this book naval historian Angus Konstam explores the fighting power the roles and the battles of the Home Fleet in the crucial first years of World War II when it was Britain s most powerful fighting force anchored in the northern bastion of Scapa Flow He explains the complex responsibilities of the fleet charged simultaneously with preventing the powerful German Navy from breaking out into the Atlantic preparing to challenge any cross Channel invasion force and attacking German naval operations in the North Sea Home Fleet actions included the loss of HMS Hood the sinking of the Bismarck

and countering the invasion of Norway Germany's biggest amphibious operation of the war Packed with striking new artwork and 3D diagrams and maps this book offers a detailed portrait of the Home Fleet during these most crucial years of the war from the capabilities of the warships to logistics and intelligence gathering to how the fleet was organized and commanded and how and why it fought as it did *The Great War at Sea* Lawrence Sondhaus, 2014-08-07 New naval history of the First World War which reveals the contribution of the war at sea to Allied victory

Naval Battle of Crete 1941 Angus Konstam, 2023-03-16 A fascinating account of an often overlooked naval action of World War II and one of the bloodiest chapters in the history of the Royal Navy In April 1941 following the Axis invasion of Greece the British Mediterranean Fleet was ordered to evacuate Allied survivors many of which were taken to Crete The Luftwaffe established itself in airfields on the Greek mainland and formed plans to invade Crete by air and sea under the cover of 500 fighters and bombers of the Luftwaffe's Fliegerkorps VIII Facing them were a small and scattered garrison on the island a handful of under strength RAF squadrons and the hard pressed warships of the Mediterranean Fleet What happened next was a costly but ultimately inspiring naval battle in which Royal Navy crews were placed under intense strain Using period photographs stunning battlescene artworks detailed maps and an authoritative narrative world leading maritime historian Angus Konstam tells the fascinating story of how Allied ships failed to repulse the Axis invasion convoys bound for Crete before successfully evacuating troops from the island all the while under relentless Luftwaffe attack Offering a fresh insight into this strategically important battle this work shows how it marked a turning point in the naval war for the Mediterranean and also witnessed the first use of new elements in naval warfare the mass use of aircraft to contest control of the sea and the use of Ultra intelligence to forestall the Axis invasion of Crete Despite a heavy butcher's bill of dozens of Royal Navy ships lost and damaged and hundreds Luftwaffe aircraft destroyed the Royal Navy Mediterranean Fleet would live to fight another day

Clash of the Capital Ships Eric Brose, 2021-09-15 The Battle of Jutland May 31 June 1 1916 pitted Great Britain and Imperial Germany the two largest fleets of World War I against one another for the first time At that time it would be the largest clash of capital ships in the history of modern naval warfare Arguably the outcome of World War I was at stake Focusing on the many fine studies of naval encounters in the North Sea and the primary sources that appeared as the centennial of this clash approached Eric Dorn Brose seized an opportunity to reexamine Jutland its pre history and aftermath Considering new scholarship within the context of extant literature the author reveals why each side claimed a victory that belonged to Britain and its cautious admiral Sir John Jellicoe by examining the key roles naval and political leaders in Germany and Great Britain played during the fight With an awareness of previous research and a lively fresh approach Brose provides a concise history of the Jutland clash and the era of naval combat itself **After Jutland** James V Goldrick, 2018-10-15 After Jutland analyses the naval war in Northern European waters following the critical but inconclusive Battle of Jutland A popular misconception is that Jutland marked the end of the operational career of the German High Sea

Fleet and the beginning of a period of stagnation for both it and its opponent the Grand Fleet The reality is much more complex The German battle fleet was quiescent for much of the time in the North Sea but it supported an ambitious amphibious campaign in the Baltic while a bitter commerce war was waged by U Boats and the light craft fought a grueling campaign in the waters of the English Channel and the Belgian Coast After Jutland focuses primarily on the Royal Navy as the dominant maritime force but it also analyses the struggles of the beleaguered German Navy as it sought to find ways to break the tightening stranglehold of the blockade and undermine Allied control of the world's oceans and of British home waters in particular The continuing conflict in the Baltic will also be explored as the Germans increased the pressure on the Russian territory and the Russian fleet while the latter despite its descent into revolution still struggled to provide an effective counter to the Imperial German Navy The Royal Navy learned much from Jutland and applied those lessons to good effect It greatly improved the way that ships were organized for battle as well as developing new tactics There were also great leaps in communications and in command and control while both aviation and undersea operations including mine warfare developed at breakneck pace The Imperial German Navy made its own changes as a result of Jutland Indeed both Germany and Russia undertook much more naval innovation in the final years of the conflict than is often realized By 1918 all the protagonists were fighting what was in every way a multi dimensional maritime war that was the forerunner of naval conflict for the remainder of the twentieth century The period also saw the entry to the conflict of the United States and the increasing commitment of the United States Navy USN units saw hard service before the Armistice of November 1918 Many of the foundations of success in the next war were laid by the USN at this time The learning curve was steep as officers and sailors alike sought to catch up on the experience of nearly three years of conflict but they brought new methods and new applications of technology to the operational problems with which their coalition partners had been struggling This included the Sixth Battle Squadron which was rapidly assimilated into the Grand Fleet absorbing the hard won knowledge of their British colleagues but applying some of their own ideas

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