

# **Slide Rules and Submarines**

**American Scientists and Subsurface  
Warfare in World War II**



**Montgomery C. Meigs**

# Slide Rules And Submarines American Scientists And Subsurface Warfare In World War

**National Defense University**



## **Slide Rules And Submarines American Scientists And Subsurface Warfare In World War :**

*Slide Rules and Submarines* Montgomery C. Meigs, 1990 *Slide Rules and Submarines* DIANE Publishing Company, 1994-07-01 Black and white photos *Slide Rules and Submarines - American Scientists and Subsurface Warfare in World War 2* National Defense University, 1990 *Slide Rules and Submarines* Montgomery C. Meigs, 2002-06 The classic problem of when to depend on lessons learned from previous conflicts and when to employ new tactics and technology always confronts military leaders At the beginning of World War II for example Allied naval strategists were prepared to do battle using traditional tactics against surface vessels but this study contends not against submarines because the strategists failed to appreciate either the damage done by submarines in World War I or the tactics that had worked successfully against them Consequently from the beginning of World War II to mid 1943 German U boats were able to mount a devastating campaign against Allied shipping In *Slide Rules and Submarines* Montgomery Meigs describes how the allies learned to counter the U boat threat Using new technology and new tactics derived from scientific methods they devised countermeasures to defeat the German submarine menace Then continuing to apply those successful measures they went on to negate the Japanese submarine threat in the Pacific The author cites the crucial role of civilian scientists the outsiders who worked with military staffs and operational commanders of the campaign at sea Their open minds and objective methods were essential for the application of such tactical advances as sonar and radar acoustic torpedoes depth finders and code breaking to the battle As this study illustrates the importance of such timely and innovative cooperation among scientists the research and development community and military commanders in bringing technological knowledge to bear for operational and strategic advantage cannot be overstated Meigs study of how such cooperation succeeded in the crucible of wartime crisis is itself an example of how the lessons of the past can serve us well today J A Baldwin Vice Admiral United States Navy President National Defense University

**World War II in Asia and the Pacific and the War's Aftermath, with General Themes** Loyd Lee, 1998-10-23 A companion to *World War II in Europe Africa and the Americas* this volume reevaluates the most enduring literature on basic aspects of the war in Asia and the Pacific It also covers themes pertaining to societies at war culture the arts and science and technology as well as international relations and the postwar world Included are not only grand strategy military and naval campaigns and matters of diplomacy but also resistance collaboration prisoners of war and broad topics of the home front including chapters on gender issues film literature popular culture and propaganda This volume and its companion provide the first comprehensive historiographic reference work on the war Each chapter describes the state of knowledge on the topic relating each bibliographic reference to the chapter's themes and issues and concludes with a bibliography Recent original scholarship is included when it aids new understanding and older works of enduring value also find a place The essays in this volume will interest scholars and college teachers as well as advanced students and serious amateurs seeking insight into the history of the war and its literature *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

**Air Power Versus U-Boats - Confronting Hitler's Submarine Menace In The European Theater**

**[Illustrated Edition]** A. Timothy Warnock, 2014-08-15 Includes over 14 photos and maps More than fifty years after World War II America's major air power contribution to the war in Europe in efforts such as Big Week Regensburg and Patton's dash across Europe live on in the memories of airmen and students of air power Never before had air forces performed so many roles in so many different types of operations Air power proved to be extremely flexible wartime missions included maintaining air superiority controlling the air space over the battlefield strategic bombardment destroying the enemy's industrial and logistical network air ground support attacking targets on the battlefield and military airlift delivering war materiel to distant bases Perhaps one of the least known but significant roles of the Army Air Forces AAF was in antisubmarine warfare particularly in the European African Middle Eastern theater From the coasts of Greenland Europe and Africa to the mid Atlantic AAF aircraft hunted German U boats that sank thousands of British and American transport ships early in the war These missions supplemented the efforts of the Royal Navy the Royal Air Force Coastal Command and the U S Navy and helped those sea forces to wrest control of the sea lanes from German submarines

**Britain, Germany and the Battle of the Atlantic** Dennis Haslop, 2013-11-07 The length scale and intensity of the Battle of the Atlantic led the British and German navies to make substantial changes to their organisation strategy and tactics In this book Dennis Haslop

examines the pivotal lessons learned and how these helped to determine the outcome of the Battle of the Atlantic Convoy War. He questions how well adapted the two organisations were to learn from the conflict and how effective they were in identifying problems and producing remedies. Based on the in depth analysis of British and German primary sources this study provides an innovative basis against which to assess the German and British approach to changing warfare and provides important new insights into aspects of convoy warfare in particular the virtually unknown subject of German Operational Research.

**Blackett's War** Stephen Budiansky, 2013-02-19 A Washington Post Notable Book. In March 1941 after a year of devastating U boat attacks the British War Cabinet turned to an intensely private bohemian physicist named Patrick Blackett to turn the tide of the naval campaign. Though he is little remembered today Blackett did as much as anyone to defeat Nazi Germany by revolutionizing the Allied anti submarine effort through the disciplined systematic implementation of simple mathematics and probability theory. This is the story of how British and American civilian intellectuals helped change the nature of twentieth century warfare by convincing disbelieving military brass to trust the new field of operational research.

*History of operations research in the United States Army* Charles R. Shrader, 2006

The Western European and Mediterranean Theaters in World War II Donal Sexton, 2011-10-06 The Western European and Mediterranean Theaters in World War II is a concise comprehensive guide for students teachers and history buffs of the Second World War. With an emphasis on the American forces in these theaters each entry is accompanied by a brief annotation that will allow researchers to navigate through the vast amount of literature on the campaigns fought in these regions with ease. Focusing on all aspects surrounding the U S involvement in the Western European and Mediterranean theaters including politics religion biography strategy intelligence and operations this bibliography will be a welcome addition to the collection of any academic or research library.

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**A Companion to World War II** Thomas W. Zeiler, Daniel M. DuBois, 2012-12-21 A Companion to World War II brings together a series of fresh academic perspectives on World War II exploring the many cultural social and political contexts of the war. Essay topics range from American anti Semitism to the experiences of French African soldiers providing nearly 60 new contributions to the genre arranged across two comprehensive volumes. A collection of original historiographic essays that include cutting edge research. Analyzes the roles of neutral nations during the war. Examines the war from the bottom up through the experiences of different social classes. Covers the causes key battles and consequences of the war.

The Battle Against the U-boat in the American Theater A. Timothy Warnock, 1993

**One Hundred Years of Sea Power** George W. Baer, 1996-07-01 A navy is a state's main

instrument of maritime force What it should do what doctrine it holds what ships it deploys and how it fights are determined by practical political and military choices in relation to national needs Choices are made according to the state s goals perceived threat maritime opportunity technological capabilities practical experience and not the least the way the sea service defines itself and its way of war This book is a history of the modern U S Navy It explains how the Navy in the century after 1890 was formed and reformed in the interaction of purpose experience and doctrine *Churchill's American Arsenal* Larrie D. Ferreiro,2022-09-14 Churchill s American Arsenal describes in depth how WWII became the War of Factories telling the heroic narratives of the Anglo American inventions and their inventors who helped decide the outcome of the conflict Decoding History W. Gardner,1999-09-21 The German attack on merchant shipping in the Second World War known as the Battle of the Atlantic was countered partly by code breaking intelligence known as Ultra The dramatic revelation of this factor in the middle 1970s resulted in many works giving this as the most important cause of Allied success

**A Companion to American Military History** James C. Bradford,2009-11-03 With more than 60 essays A Companion to American MilitaryHistory presents a comprehensive analysis of the historiographyof United States military history from the colonial era to thepresent Covers the entire spectrum of US history from the Indian andimperial conflicts of the seventeenth century to the battles inAfghanistan and Iraq Features an unprecedented breadth of coverage from eminentmilitary historians and emerging scholars including little studiedtopics such as the military and music military ethics care of thedead and sports Surveys and evaluates the best scholarship on every importanteras and topic Summarizes current debates and identifies areas whereconflicting interpretations are in need of further study **Battle of the Atlantic** Marc Milner,2011-07-31 World War II was only a few hours old when the Battle of the Atlantic the longest campaign of the Second World War and the most complex submarine war in history began with the sinking of the unarmed passenger liner Athenia by the German submarine U30 Based on the mastery of the latest research and written from a mid Atlantic rather than the traditional Anglo centric perspective Marc Milner focuses on the confrontation between opposing forces and the attacks on Allied shipping that lay at the heart of the six year struggle Against the backdrop of the battle for the Atlantic lifeline he charts the fascinating development of U boats and the techniques used by the Allies to suppress and destroy these stealth weapons From Axis Victories to the Turn of the Tide Alan Levine,2012-06-01 Analyzes the most critical campaigns of World War II from 1942 to 1943 examining the conflict from a geographical perspective and discussing the key developments that turned the tides of war in favor of the Allied powers *History of operations research in the United States Army, V. 3, 1973-1995* ,

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