

WHEN COMPUTERS WENT TO SEA

*The Digitization
of the United States Navy*

David L. Boslaugh



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When Computers Went To Sea The Digitization Of The United States Navy

Elliott Vanveltner Converse



When Computers Went To Sea The Digitization Of The United States Navy:

When Computers Went to Sea David L. Boslaugh, 2003-04-16 *When Computers Went to Sea* explores the history of the United States Navy's secret development of code breaking computers and their adaptation to solve a critical fleet radar data handling problem in the Navy's first seaborne digital computer system that went to sea in 1962. This is the only book written on the United States Navy's initial application of shipboard digital computers to naval warfare. Considered one of the most successful projects ever undertaken by the US Navy, the Naval Tactical Data System (NTDS) was the subject of numerous studies attempting to pinpoint the reason for the system's inordinate success in the face of seemingly impossible technical challenges and stiff resistance from some in the military. The system's success precipitated a digital revolution in naval warfare systems. Dave Boslaugh details the innovations developed by the NTDS project managers including project management techniques, modular digital hardware for ship systems, top down modular computer programming techniques, innovative computer program documentation, and other novel real time computer system concepts. Automated military systems, users and developers, real time process control systems, designers, automated system project managers, and digital technology history students will find this account of a United States military organization's initial foray into computerization interesting and thought provoking.

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History of Acquisition in the Department of Defense, Volume 1 Elliott V. Converse, 2012-06-12 This volume is a history of the acquisition of major weapon systems by the United States armed forces from 1945 to 1960, the decade and a half that spanned the Truman and Eisenhower administrations following World War II. These instruments of warfare—aircraft, armored vehicles, artillery, guided missiles, naval vessels, and supporting electronic systems—when combined with nuclear warheads, gave the postwar American military unprecedented

deterrent and striking power 1 They were also enormously expensive The volume is organized chronologically with individual chapters addressing the roles of OSD the Army Navy and Air Force in two distinct periods The first roughly coinciding with President Truman s tenure covers the years from the end of World War II through the end of the Korean War in 1953 The second spans the two terms of the Eisenhower presidency from 1953 through early 1961 The year 1953 marked a natural breakpoint between the two periods The Korean War had ended President Eisenhower and his defense team began implementing the New Look a policy and strategy based on nuclear weapons which they believed would provide security and make it possible to reduce military spending The New Look s stress on nuclear weapons along with the deployment of the first operational guided missiles and the rapid advances subsequently made in nuclear and missile technology profoundly influenced acquisition in the services throughout the 1950s and the remainder of the century As used in this study the term acquisition encompasses the activities by which the United States obtains weapons and other equipment In surveying the history of acquisition between 1945 and 1960 this study discusses or refers in passing to many of the hundreds of weapon system programs initiated by the services in that period but it is not a weapons encyclopedia Instead it investigates a few major programs in depth in the belief that such detailed examination best reveals the evolution of acquisition policies organizations and processes and the various forces influencing weapons programs *Rearming for the Cold War, 1945-1960* Elliott Vanveltner Converse, 2012 Book Description The first publication in a multivolume series on the history of the acquisition of major weapon systems by the Department of Defense author Elliott Converse presents a meticulously researched overview of changes in acquisition policies organizations and processes within the United States military establishment during the decade and a half following World War II Many of the changes that shaped the nature and course of weapons research and development production and contracting through the end of the century were instituted between 1945 and 1960 many of the problems that have repeatedly challenged defense policymakers and acquisition professionals also first surfaced during these years This study is the first to combine the histories of the Office of the Secretary of Defense OSD and the military services into one account The volume is organized chronologically with individual chapters addressing the roles of OSD the Army Navy and Air Force in two distinct periods **The Origins of Aegis** Thomas Wildenberg, 2024-05-15 This book provides readers with an in depth understanding of the professional development of two notable and highly accomplished naval officers and their contributions to the development of the Aegis Weapons System The main argument is that there was no single career path or set of formal qualifications for achieving excellence in the naval profession as characterized by selection for Flag rank One of the major points is the revelation that a combination of essential personal traits and qualities and important operational and technical experiences fundamental to the nature of naval warfare are critical to developing highly competent and confident officers Such officers are needed to lead major acquisition programs capable of delivering innovative weapons systems for a twenty first t century Navy facing new age threats *The Digital*

Hand, Vol 3 James W. Cortada, 2008 In The third volume of The Digital Hand James W Cortada completes his sweeping survey of the effect of computers on American industry turning finally to the public sector and examining how computers have fundamentally changed the nature of work in government and education This book goes far beyond generalizations about the Information Age to the specifics of how industries have functioned now function and will function in the years to come Cortada combines detailed analysis with narrative history to provide a broad overview of computings and telecommunications role in the entire public sector including federal state and local governments and in K 12 and higher education Beginning in 1950 when commercial applications of digital technology began to appear Cortada examines the unique ways different public sector industries adopted new technologies showcasing the manner in which their innovative applications influenced other industries as well as the U S economy as a whole He builds on the surveys presented in the first volume of the series which examined sixteen manufacturing process transportation wholesale and retail industries and the second volume which examined over a dozen financial telecommunications media and entertainment industries With this third volume The Digital Hand trilogy is complete and forms the most comprehensive and rigorously researched history of computing in business since 1950 providing a detailed picture of what the infrastructure of the Information Age really looks like and how we got there Managers historians economists and those working in the public sector will appreciate Cortada s analysis of digital technology s many roles and future possibilities

Military Communications Christopher H.

Sterling, 2007-10-16 An alphabetically organized encyclopedia that provides both a history of military communications and an assessment of current methods and applications Military Communications From Ancient Times to the 21st Century is the first comprehensive reference work on the applications of communications technology to military tactics and strategy a field that is just now coming into its own as a focus of historical study Ranging from ancient times to the war in Iraq it offers over 300 alphabetically organized entries covering many methods and modes of transmitting communication through the centuries as well as key personalities organizations strategic applications and more Military Communications includes examples from armed forces around the world with a focus on the United States where many of the most dramatic advances in communications technology and techniques were realized A number of entries focus on specific battles where communications superiority helped turn the tide including Tsushima 1905 Tannenberg and the Marne both 1914 Jutland 1916 and Midway 1942 The book also addresses a range of related topics such as codebreaking propaganda and the development of civilian telecommunications

Computers and Commerce Arthur Lawrence Norberg, 2005 Both ERA and

EMCC had their roots in World War II and in postwar years both firms received major funding from the United States government Norberg analyzes the interaction between the two companies and the government and examines the impact of this institutional context on technological innovation He looks at the two firms operations after 1951 as independent subsidiaries of Remington Rand and documents the management problems that began after Remington Rand merged with

Sperry Gyroscope to form Sperry Rand in 1955 Jacket **Learning War** Trent Hone, 2018-06-15 Learning War examines the U S Navy s doctrinal development from 1898 1945 and explains why the Navy in that era was so successful as an organization at fostering innovation A revolutionary study of one of history s greatest success stories this book draws profoundly important conclusions that give new insight not only into how the Navy succeeded in becoming the best naval force in the world but also into how modern organizations can exploit today s rapid technological and social changes in their pursuit of success Trent Hone argues that the Navy created a sophisticated learning system in the early years of the twentieth century that led to repeated innovations in the development of surface warfare tactics and doctrine The conditions that allowed these innovations to emerge are analyzed through a consideration of the Navy as a complex adaptive system Learning War is the first major work to apply this complex learning approach to military history This approach permits a richer understanding of the mechanisms that enable human organizations to evolve innovate and learn and it offers new insights into the history of the United States Navy Encyclopedia of War and American Society Peter Karsten, 2006
Publisher description

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **When Computers Went To Sea The Digitization Of The United States Navy**

In some sort of inundated with displays and the cacophony of fast conversation, the profound energy and mental resonance of verbal beauty often diminish in to obscurity, eclipsed by the regular assault of noise and distractions. Yet, situated within the musical pages of **When Computers Went To Sea The Digitization Of The United States Navy**, a captivating work of literary brilliance that impulses with natural thoughts, lies an unique journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that magical opus books viewers on a psychological odyssey, lightly revealing the latent possible and profound affect embedded within the delicate internet of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is central themes, dissect their captivating publishing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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