



Makin'

Numbers

Howard Aiken and the Computer

edited by I. Bernard Cohen and Gregory W. Welch

with the cooperation of Robert V. D. Campbell

Cambridge, Massachusetts

# Makin Numbers Howard Aiken And The Computer

**James P. Rife, Rodney P. Carlisle**



## **Makin Numbers Howard Aiken And The Computer:**

*Makin' Numbers* I. Bernard Cohen, Gregory W. Welch, Robert V. D. Campbell, 1999 This collection of technical essays and reminiscences is a companion to I Bernard Cohen s biography Howard Aiken Portrait of a Computer Pioneer After an overview by Cohen Part I presents the complete publication of Aiken s 1937 proposal for an automatic calculating machine later realized as the Mark I as well as recollections by the chief engineer in charge of construction of Mark II Robert Campbell and the programmer of Mark I Richard Bloch Henry Tropp describes Aiken s hostility to the exclusive use of binary numbers in computational systems and his alternative approach

**Makin' Numbers** I. Bernard Cohen, Gregory W. Welch, 1999-06 with the cooperation of Robert V D Campbell This collection of technical essays and reminiscences is a companion volume to I Bernard Cohen s biography Howard Aiken Portrait of a Computer Pioneer After an overview by Cohen Part I presents the first complete publication of Aiken s 1937 proposal for an automatic calculating machine which was later realized as the Mark I as well as recollections of Aiken s first two machines by the chief engineer in charge of construction of Mark II Robert Campbell and the principal programmer of Mark I Richard Bloch Henry Tropp describes Aiken s hostility to the exclusive use of binary numbers in computational systems and his alternative approach Part II contains essays on Aiken s administrative and teaching styles by former students Frederick Brooks and Peter Calingaert and an essay by Gregory Welch on the difficulties Aiken faced in establishing a computer science program at Harvard Part III contains recollections by people who worked or studied with Aiken including Richard Bloch Grace Hopper Anthony Oettinger and Maurice Wilkes Henry Tropp provides excerpts from an interview conducted just before Aiken s death Part IV gathers the most significant of Aiken s own writings The appendixes give the specs of Aiken s machines and list his doctoral students and the topics of their dissertations

**The Computers that Made the World** Tim Danton, 2025-07-29 This book tells the story of the birth of the computing industry via the origins of ten influential computers built between 1939 and 1950 Starting with a short sharp history of how we got to where we were on the eve of the second world war this book illuminates humanity s desire for calculation aids throughout history and how that led to the ready reckoner Napier s bones Pascal s calculator the difference engine the analytical engine the comptometer and Herman Hollerith s electronic tabulating machine This book is a world tour through the modern history of computing and it begins in 1939 with the first electronic digital computer the Atanasoff Berry computer ABC From there the book moves on to the World War II era with ENIAC the first general purpose digital computer The story of computing in World War II takes us through Germany UK and the US and right after that the book explores the rapid growth of computing power in the post war years The years of big iron in the US and UK takes you to the middle of the 1950s In *The Computers that Made the World* you ll learn about the computers and more that shaped the world we live in and also about what happened behind the scenes

[A to Z of Computer Scientists, Updated Edition](#) Harry Henderson, 2020-01-01 Praise for the previous edition Entries are written with enough clarity and simplicity to appeal to

general audiences The additional readings that end each profile give excellent pointers for more detailed information  
Recommended Choice This well written collection of biographies of the most important contributors to the computer world is a valuable resource for those interested in the men and women who were instrumental in making the world we live in today This is a recommended purchase for reference collections American Reference Books Annual this one is recommended for high school public and undergraduate libraries Booklist The significant role that the computer plays in the business world schools and homes speaks to the impact it has on our daily lives While many people are familiar with the Internet online shopping and basic computer technology the scientists who pioneered this digital age are generally less well known A to Z of Computer Scientists Updated Edition features 136 computer pioneers and shows the ways in which these individuals developed their ideas overcame technical and institutional challenges collaborated with colleagues and created products or institutions of lasting importance The cutting edge contemporary entries explore a diverse group of inventors scientists entrepreneurs and visionaries in the computer science field People covered include Grace Hopper 1906 1992 Dennis Ritchie 1941 2011 Brian Kernighan 1942 present Howard Rheingold 1947 present Bjarne Stroustrup 1950 present Esther Dyson 1951 present Silvio Micali 1954 present Jeff Bezos 1964 present Pierre Omidyar 1967 present Jerry Yang 1968 present

**Howard Aiken** I. Bernard Cohen, 2000 Biography of Howard Aiken a major figure of the early digital era by a major historian of science who was also a colleague of Aiken's at Harvard Howard Hathaway Aiken 1900 1973 was a major figure of the early digital era He is best known for his first machine the IBM Automatic Sequence Controlled Calculator or Harvard Mark I conceived in 1937 and put into operation in 1944 But he also made significant contributions to the development of applications for the new machines and to the creation of a university curriculum for computer science This biography of Aiken by a major historian of science who was also a colleague of Aiken's at Harvard offers a clear and often entertaining introduction to Aiken and his times Aiken's Mark I was the most intensely used of the early large scale general purpose automatic digital computers and it had a significant impact on the machines that followed Aiken also proselytized for the computer among scientists scholars and businesspeople and explored novel applications in data processing automatic billing and production control But his most lasting contribution may have been the students who received degrees under him and then took prominent positions in academia and industry I Bernard Cohen argues convincingly for Aiken's significance as a shaper of the computer world in which we now live **The First Computers** Raul Rojas, Ulf Hashagen, 2002-07-26 This history of computing focuses not on chronology what came first and who deserves credit for it but on the actual architectures of the first machines that made electronic computing a practical reality The book covers computers built in the United States Germany England and Japan It makes clear that similar concepts were often pursued simultaneously and that the early researchers explored many architectures beyond the von Neumann architecture that eventually became canonical The contributors include not only historians but also engineers and computer pioneers An introductory chapter describes the

elements of computer architecture and explains why being first is even less interesting for computers than for other areas of technology. The essays contain a remarkable amount of new material even on well known machines and several describe reconstructions of the historic machines. These investigations are of more than simply historical interest for architectures designed to solve specific problems in the past may suggest new approaches to similar problems in today's machines.

Contributors: Titiimaea F. Ala-ilima, Lin Ping Ang, William Aspray, Friedrich L. Bauer, Andreas Brennecke, Chris P. Burton, Martin Campbell Kelly, Paul Ceruzzi, I. Bernard Cohen, John Gustafson, Wilhelm Hopmann, Harry D. Huskey, Friedrich W. Kistermann, Thomas Lange, Michael S. Mahoney, R. B. E. Napper, Seiichi Okoma, Hartmut Petzold, R. I. Rojas, Anthony E. Sale, Robert W. Seidel, Ambros P. Speiser, Frank H. Sumner, James F. Tau, Jan Van der Spiegel, Eiiti Wada, Michael R. Williams. Dictionary Of Modern American Philosophers John R. Shook, 2005-05-15. The Dictionary of Modern American Philosophers includes both academic and non academic philosophers and a large number of female and minority thinkers whose work has been neglected. It includes those intellectuals involved in the development of psychology, pedagogy, sociology, anthropology, education, theology, political science and several other fields before these disciplines came to be considered distinct from philosophy in the late nineteenth century. Each entry contains a short biography of the writer, an exposition and analysis of his or her doctrines and ideas, a bibliography of writings and suggestions for further reading. While all the major post Civil War philosophers are present, the most valuable feature of this dictionary is its coverage of a huge range of less well known writers including hundreds of presently obscure thinkers. In many cases the Dictionary of Modern American Philosophers offers the first scholarly treatment of the life and work of certain writers. This book will be an indispensable reference work for scholars working on almost any aspect of modern American thought.

**The Science of Computing** Matti Tedre, 2014-12-03. The identity of computing has been fiercely debated throughout its short history. Why is it still so hard to define computing as an academic discipline? Is computing a scientific, mathematical or engineering discipline? By describing the mathematical, engineering and scientific traditions of computing, *The Science of Computing: Shaping a Discipline* A Companion to the History of American Science Georgina M. Montgomery, Mark A. Largent, 2019-09-23. *A Companion to the History of American Science* offers a collection of essays that give an authoritative overview of the most recent scholarship on the history of American science. Covers topics including astronomy, agriculture, chemistry, eugenics, Big Science, military technology and more. Features contributions by the most accomplished scholars in the field of science history. Covers pivotal events in U.S. history that shaped the development of science and science policy such as WWII, the Cold War and the Women's Rights movement.

*Ours Was the Shining Future* David Leonhardt, 2023-10-24. The clear-eyed definitive history of the modern American economy and the decline of the American Dream from the Pulitzer Prize winning columnist behind *The New York Times's* *The Morning* newsletter. With the even-handed incisiveness that has made him one of the country's most respected voices on economics, David Leonhardt illuminates the inside history of the players and missteps that have stolen so many

Americans futures Jane Mayer author of Dark Money NEW YORK TIMES BOOK REVIEW EDITORS CHOICE ONE OF THE ATLANTIC S TEN BEST BOOKS OF THE YEAR A FINANCIAL TIMES BEST BOOK OF THE YEAR Two decades into the twenty first century the stagnation of living standards has become the defining trend of American life Life expectancy has declined economic inequality has soared and after some progress the Black white wage gap is once again as large as it was in the 1950s How did this happen in the world s most powerful country And what happened to the American dream the promise of a happier healthier more prosperous future which was once such an inextricable part of our national identity Drawing on decades of writing about the economy for The New York Times Pulitzer Prize winning writer David Leonhardt examines the past century of American history from the Great Depression to today s Great Stagnation in search of an answer To make sense of the rise and subsequent fall of the American dream Leonhardt tells the story of the modern American economy as an ongoing battle between two competing forms of capitalism one that envisions prosperity for most and one that serves the individual and favors the wealthy In vivid prose Ours Was the Shining Future traces how democratic capitalism flourished to make the American dream possible until the latter decades of the twentieth century when bit by bit the dream was corrupted to serve only the privileged few Ours Was the Shining Future is a sweeping narrative full of innovation and grit human drama and hope Featuring the trailblazing figures who helped shape the American dream Frances Perkins Paul Hoffman Cesar Chavez Robert Kennedy A Philip Randolph Grace Hopper and more this engaging history reveals the power of grassroots democratic movements from across the political spectrum And though the American dream feels lost to us now Leonhardt shows how Americans if they commit themselves to transforming the economy as they did in the past have the power to revive the dream once more

**A Science of Operations** Mark Priestley, 2011-02-14 Today computers fulfil a dazzling array of roles a flexibility resulting from the great range of programs that can be run on them A Science of Operations examines the history of what we now call programming defined not simply as computer programming but more broadly as the definition of the steps involved in computations and other information processing activities This unique perspective highlights how the history of programming is distinct from the history of the computer despite the close relationship between the two in the 20th century The book also discusses how the development of programming languages is related to disparate fields which attempted to give a mechanical account of language on the one hand and a linguistic account of machines on the other Topics and features Covers the early development of automatic computing including Babbage s mechanical calculating engines and the applications of punched card technology examines the theoretical work of mathematical logicians such as Kleene Church Post and Turing and the machines built by Zuse and Aiken in the 1930s and 1940s discusses the role that logic played in the development of the stored program computer describes the standard model of machine code programming popularised by Maurice Wilkes presents the complete table for the universal Turing machine in the Appendices investigates the rise of the initiatives aimed at developing higher level programming notations and how these came to be thought of as

languages that could be studied independently of a machine examines the importance of the Algol 60 language and the framework it provided for studying the design of programming languages and the process of software development and explores the early development of object oriented languages with a focus on the Smalltalk project This fascinating text offers a new viewpoint for historians of science and technology as well as for the general reader The historical narrative builds the story in a clear and logical fashion roughly following chronological order

### **A New History of Modern Computing**

Thomas Haigh, Paul E. Ceruzzi, 2021-09-14 How the computer became universal Over the past fifty years the computer has been transformed from a hulking scientific supertool and data processing workhorse remote from the experiences of ordinary people to a diverse family of devices that billions rely on to play games shop stream music and movies communicate and count their steps In A New History of Modern Computing Thomas Haigh and Paul Ceruzzi trace these changes A comprehensive reimagining of Ceruzzi's A History of Modern Computing this new volume uses each chapter to recount one such transformation describing how a particular community of users and producers remade the computer into something new Haigh and Ceruzzi ground their accounts of these computing revolutions in the longer and deeper history of computing technology They begin with the story of the 1945 ENIAC computer which introduced the vocabulary of programs and programming and proceed through email pocket calculators personal computers the World Wide Web videogames smart phones and our current world of computers everywhere in phones cars appliances watches and more Finally they consider the Tesla Model S as an object that simultaneously embodies many strands of computing

### Delete Viktor

Mayer-Schönberger, 2011-07-05 The hazards of perfect memory in the digital age Delete looks at the surprising phenomenon of perfect remembering in the digital age and reveals why we must reintroduce our capacity to forget Digital technology empowers us as never before yet it has unforeseen consequences as well Potentially humiliating content on Facebook is enshrined in cyberspace for future employers to see Google remembers everything we've searched for and when The digital realm remembers what is sometimes better forgotten and this has profound implications for us all In Delete Viktor Mayer Sch nberger traces the important role that forgetting has played throughout human history from the ability to make sound decisions unencumbered by the past to the possibility of second chances The written word made it possible for humans to remember across generations and time yet now digital technology and global networks are overriding our natural ability to forget the past is ever present ready to be called up at the click of a mouse Mayer Sch nberger examines the technology that's facilitating the end of forgetting digitization cheap storage and easy retrieval global access and increasingly powerful software and describes the dangers of everlasting digital memory whether it's outdated information taken out of context or compromising photos the Web won't let us forget He explains why information privacy rights and other fixes can't help us and proposes an ingeniously simple solution expiration dates on information that may Delete is an eye opening book that will help us remember how to forget in the digital age

The Sound of Freedom James P. Rife, Rodney P. Carlisle, 2006 Tells the

story of the evolution of the Dahlgren Laboratory from a proof and test facility into a modern research and development center crucial to the technological evolution of the United States Navy      **The sound of freedom: Naval Weapons**

**Technology at Dahlgren, Virginia 1918-2006** James P. Rife, 2006 This book tells the story of the evolution of the Dahlgren Laboratory from a naval proof and test facility into a modern research and development center crucial to the technological evolution of the U S Navy Combining a close analysis of the technical work that led to the improvements in weapons bombsights missiles and the computers that provided their guidance with a close account of changing management styles this work recounts many previously classified stories      **Birthing the Computer** Stephen H. Kaisler, 2016-12-12 Birthing

the Computer From Relays to Vacuum Tubes is the first in a multi volume series on historical computing machines This series will span the development of computer systems from the Zuse machines of the early 1930s to about 1995 when microprocessors began to be commoditized Each volume will focus on a range of technologies or a class of machines or a particular vendor and will describe the hardware of the machines and its peripherals the operating system and system software and its influence upon programming languages This volume begins with the Zuse machines which were constructed from relays but contained the basic elements of a computer system namely input computing engine and output Early machines from Atanasoff and Berry Aiken Stibitz and IBM are described The transition from relays to vacuum tubes increased speed and performance significantly and led to the first true computers in ENIAC EDSAC and EDVAC which used paper tape and Williams tubes for I O and storage These machines were built by universities Several early machines were purpose built such as Colossus and BINAC and created with government support and industrial know how By the mid to late 50s computing machines were being built by universities the SSEM Whirlwind and IAS machines governments the NBS SEAC and SWAC and several other machines and industry the UNIVAC series and the English Electric DEUCE Most of these machines were constructed using the von Neumann architecture and represent an evolution of thinking in how computing machines were to operate along with some innovative ideas in software and programming languages By the end of the 1950s the design development programming and use of computing machines were in full ferment as many new ideas were proposed many different machines were designed and some were constructed Computing machines became a commercial enterprise Governments receded from building machines to levying requirements and funding construction while universities continued to explore new architectures new operating systems and new programming languages      **Mind as Machine** Margaret A.

Boden, 2006 Cognitive science is among the most fascinating intellectual achievements of the modern era The quest to understand the mind is an ancient one But modern science has offered new insights and techniques that have revolutionized this enquiry Oxford University Press now presents a masterly history of the field told by one of its most eminent practitioners Psychology is the thematic heart of cognitive science which aims to understand human and animal minds But its core theoretical ideas are drawn from cybernetics and artificial intelligence and many cognitive scientists try to build functioning



models of how the mind works In that sense Margaret Boden suggests its key insight is that mind is a very special machine Because the mind has many different aspects the field is highly interdisciplinary It integrates psychology not only with cybernetics AI but also with neuroscience and clinical neurology with the philosophy of mind language and logic with linguistic work on grammar semantics and communication with anthropological studies of cultures and with biological and A Life research on animal behaviour evolution and life itself Each of these disciplines in its own way asks what the mind is what it does how it works how it develops and how it is even possible Boden traces the key questions back to Descartes s revolutionary writings and to the ideas of his followers and his radical critics through the eighteenth and nineteenth centuries Her story shows how controversies in the development of experimental physiology neurophysiology psychology evolutionary biology embryology and logic are still relevant today Then she guides the reader through the complex interlinked paths along which the study of mind developed in the twentieth century Cognitive science covers all mental phenomena not just cognition knowledge but also emotion personality psychopathology social communication religion motor action and consciousness In each area Boden introduces the key ideas and researchers and discusses those philosophical critics who see cognitive science as fundamentally misguided And she sketches the waves of resistance and acceptance on the part of the media and general public showing how these have affected the development of the field No one else could tell this story as Boden can she has been a member of the cognitive science community since the late 1950s and has known many of its key figures personally Her narrative is written in a lively swift moving style enriched by the personal touch of someone who knows the story at first hand Her history looks forward as well as back besides asking how state of the art research compares with the hopes of the early pioneers she identifies the most promising current work Mind as Machine will be a rich resource for anyone working on the mind in any academic discipline who wants to know how our understanding of mental capacities has advanced over the years

**IBM** James W. Cortada, 2023-08-01 A history of one of the most influential American companies of the last century For decades IBM shaped the way the world did business IBM products were in every large organization and IBM corporate culture established a management style that was imitated by companies around the globe It was Big Blue an icon And yet over the years IBM has gone through both failure and success surviving flatlining revenue and forced reinvention The company almost went out of business in the early 1990s then came back strong with new business strategies and an emphasis on artificial intelligence In this authoritative monumental history James Cortada tells the story of one of the most influential American companies of the last century Cortada a historian who worked at IBM for many years describes IBM s technology breakthroughs including the development of the punch card used for automatic tabulation in the 1890 census the calculation and printing of the first Social Security checks in the 1930s the introduction of the PC to a mass audience in the 1980s and the company s shift in focus from hardware to software He discusses IBM s business culture and its orientation toward employees and customers its global expansion regulatory and legal issues including antitrust

litigation and the track records of its CEOs The secret to IBM's unequalled longevity in the information technology market Cortada shows is its capacity to adapt to changing circumstances and technologies 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 **Research and Development in the U.S. Army Corps of Engineers** Damon Manders, 2011

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