



JOHN VON NEUMANN and THE ORIGINS OF MODERN COMPUTING WILLIAM ASPRAY

John Von Neumann And The Origins Of Modern Computing History Of Computing

Roy Porter, Marilyn Bailey Ogilvie



John Von Neumann And The Origins Of Modern Computing History Of Computing:

John von Neumann and the Origins of Modern Computing William Aspray, 1990-12-07 William Aspray provides the first broad and detailed account of von Neumann's many different contributions to computing. John von Neumann 1903-1957 was unquestionably one of the most brilliant scientists of the twentieth century. He made major contributions to quantum mechanics and mathematical physics and in 1943 began a new and all too short career in computer science. William Aspray provides the first broad and detailed account of von Neumann's many different contributions to computing. These Aspray reveals extended far beyond his well known work in the design and construction of computer systems to include important scientific applications, the revival of numerical analysis and the creation of a theory of computing. Aspray points out that from the beginning von Neumann took a wider and more theoretical view than other computer pioneers. In the now famous EDVAC report of 1945 von Neumann clearly stated the idea of a stored program that resides in the computer's memory along with the data it was to operate on. This stored program computer was described in terms of idealized neurons, highlighting the analogy between the digital computer and the human brain. Aspray describes von Neumann's development during the next decade and almost entirely alone of a theory of complicated information processing systems or automata and the introduction of themes such as learning, reliability of systems with unreliable components, self replication and the importance of memory and storage capacity in biological nervous systems. Many of these themes remain at the heart of current investigations in parallel or neurocomputing. Aspray allows the record to speak for itself. He unravels an intricate sequence of stories generated by von Neumann's work and brings into focus the interplay of personalities centered about von Neumann. He documents the complex interactions of science, the military and business and shows how progress in applied mathematics was intertwined with that in computers. William Aspray is Director of the Center for the History of Electrical Engineering at The Institute of Electrical and Electronics Engineers. **Modern Mathematics, Updated Edition** Michael

Bradley, 2019-11-01 Praise for the previous edition: ample information for reports. School Library Journal. During the first half of the 20th century, mathematics became an international discipline that led to major advances in science and technology. **Modern Mathematics, Updated Edition** provides an eye-opening introduction to those five historic decades by analyzing the advancement of the field through the accomplishments of 10 significant mathematicians. From David Hilbert and Emmy Noether, who introduced the infinite dimensional vector spaces and algebraic rings that bear their names, to Norbert Wiener, the founder of cybernetics, this in-depth title covers the early 20th century advancements that expanded the field of mathematics and transformed the way that mathematicians do their work. This edition is ideal for middle and high school students seeking resources for research or general interest. **The Innovators** Walter Isaacson, 2014-10-07 A revelatory history of the people who created the computer and the Internet discusses the process through which innovation happens in the modern world, citing the pivotal contributions of such figures as Ada Lovelace, Alan Turing, Bill Gates and Tim Berners Lee.

Information Technology as Business History James W. Cortada, 1996-08-23 looks at computing as business history from the perspective of the business historian and business manager

Reader's Guide to the History of Science Arne Hessenbruch, 2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

History of Programming Languages II Thomas J. Bergin, Richard G. Gibson, 1996 This comprehensive overview of programming languages their history current application and future direction is based on the proceedings of the second conference on the History of Programming Languages Its contents include a summary of the HOPL conferences plus sections addressing successful programming languages by some of the most prominent names in computing

Grace Hopper and the Early History of Computer Programming, 1944-1960 Kurt Beyer, 2002

Writing Computer and Information History William Aspray, 2024 This is not a book about the history of computing or the history of information Instead it is a meta historical book about the research and writing of these types of history The formal presentation of historical research in the form of a publication often hides the process by which the topic was selected boundaries were drawn evidence was selected analytic approach was chosen and applied results were presented how this work fits into a larger body of scholarship the implicit goals and biases of the author and many other similar issues This process of learning about the various ways to carry out computer history or information history can be enriched by this collection of reflective essays by experienced scholars discussing the craft that they practice This is a book that concerns both computer history and information history The first scholarship in computer history by professionally trained scholars began to appear in the 1970s so we are approaching a half century of research and publication in this area The field has generated numerous pieces of exemplary scholarship from various perspectives such as intellectual history of individual technologies business histories of firms economic histories of market sectors externalist histories of funding and professionalization and so on However the field continues to evolve especially as computing and communication technologies have drawn together in the form of the Internet and social media and with them a new set of scholars is participating drawn not only from the history of science and technology but also from the communication and media studies fields Powerful theories approaches and frameworks are being increasingly drawn more widely from both the humanities and the social sciences to inform the practice of computer history The scholars in this volume look at what's happened what's happening now and where historical scholarship in these disciplines is headed

Writing Computer and Information History William Aspray, 2024-05-14 This is not a book about the history of computing or the history of information Instead it is a meta historical book about the research and writing of these types of history The formal presentation of historical research in the form of a publication often hides the process by which the topic was selected

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Conway,2008-11-03 Honorable Mention 2008 ASLI Choice Awards Atmospheric Science Librarians International This book offers an informed and revealing account of NASA s involvement in the scientific understanding of the Earth s atmosphere Since the nineteenth century scientists have attempted to understand the complex processes of the Earth s atmosphere and the weather created within it This effort has evolved with the development of new technologies from the first instrument equipped weather balloons to multibillion dollar meteorological satellite and planetary science programs Erik M Conway chronicles the history of atmospheric science at NASA tracing the story from its beginnings in 1958 the International Geophysical Year through to the present focusing on NASA s programs and research in meteorology stratospheric ozone depletion and planetary climates and global warming But the story is not only a scientific one NASA s researchers operated within an often politically contentious environment Although environmental issues garnered strong public and political support in the 1970s the following decades saw increased opposition to environmentalism as a threat to free market capitalism Atmospheric Science at NASA critically examines this politically controversial science dissecting the often convoluted roles motives and relationships of the various institutional actors involved among them NASA congressional appropriation committees government weather and climate bureaus and the military **Why Computers are Computers**

David Rutland,1995 Who Invented the Computer? Alice R. Burks,2003 Examines the facts surrounding the 1973 federal trial that dealt with the dispute over which company invented the first automatic electronic digital computer **The Universal History of Computing** Georges Ifrah,2001 A brilliant follow up to a landmark international bestseller Suppose

every instrument could by command or by anticipation of need execute its function on its own suppose that spindles could weave of their own accord and plectra strike the strings of zithers by themselves then craftsmen would have no need of hand work and masters have no need of slaves Aristotle Called the Indiana Jones of arithmetic Georges Ifrah embarked in 1974 on a ten year quest to discover where numbers come from and what they say about us His first book the highly praised Universal History of Numbers drew from this remarkable journey presented the first complete account of the invention and evolution of numbers the world over and became an international bestseller In The Universal History of Computing Ifrah continues his exhilarating exploration into the fascinating world of numbers In this fun engaging but no less learned book he traces the development of computing from the invention of the abacus to the creation of the binary system three centuries ago to the incredible conceptual scientific and technical achievements that made the first modern computers possible He shows us how various cultures scientists and industries across the world struggled to break free of the tedious labor of mental calculation and as a result he reveals the evolution of the human mind Evoking the excitement and joy that accompanied the grand mathematical undertakings throughout history Ifrah takes us along as he revisits a multitude of cultures from Roman times and the Chinese Common Era to twentieth century England and America We meet mathematicians visionaries philosophers and scholars from every corner of the world and from every period of history We witness the dead ends and regressions in the computer s development as well as the advances and illuminating discoveries We learn about the births of the pocket calculator the adding machine the cash register and even automata We find out how the origins of the computer can be found in the European Renaissance along with how World War II influenced the development of analytical calculation And we explore such hot topics as numerical codes and the recent discovery of new kinds of number systems such as surreal numbers Adventurous and enthralling The Universal History of Computing is an astonishing achievement that not only unravels the epic tale of computing but also tells the compelling story of human intelligence and how much farther we still have to go

GEORGES IFRAH is an independent scholar and former math teacher E F Harding the primary translator is a statistician and mathematician who has taught at Aberdeen Edinburgh and Cambridge Universities SOPHIE WOOD cotranslator is a specialist in technical translation from French Ian Monk cotranslator has translated the works of Georges Perec and Daniel Pennac ELIZABETH CLEGG cotranslator is also an interpreter who has worked on a number of government and international agency projects Guido Waldman cotranslator has translated several classic literary works In this engaging successor to The Universal History of Numbers you ll discover the entire story of the calculation of yesteryear and the computation of today From the invention of the abacus to the creation of the binary system three centuries ago to the conceptual scientific and technical achievements that made the earliest computers possible highly acclaimed author and mathematician Georges Ifrah provides an illuminating glimpse into humankind s greatest intellectual tale the story of computing PRAISE FOR GEORGES IFRAH S The Universal History of Numbers Georges Ifrah is the man

This book quite simply rules It is outstanding a mind boggling and enriching experience The Guardian London Monumental a fascinating journey taking us through many different cultures The Times London Ifrah s book amazes and fascinates by the scope of its scholarship It is nothing less than the history of the human race told through figures International Herald Tribune Dazzling Kirkus Reviews Sure to transfix readers Publishers Weekly *The Charles Babbage Institute Newsletter* ,1994 **The Computer Boys Take Over** Nathan Ensmenger,2010 The contentious history of the computer programmers who developed the software that made the computer revolution possible **A Bibliographic Guide to the History of Computing, Computers, and the Information Processing Industry** ,1990-05-21 As millions of people have been exposed to computing through the tremendous growth of microcomputers there has developed an increasing appreciation of the history of data processing which dates back many decades before the arrival of the computer Stretching back to at least the 1860s such early technologies as adding machines punch cards and the office appliance industry are now being recognized for their place in the history of the information processing industry This work brings together a comprehensive list of sources that offer a general introduction to the literature of the industry Divided into nine chapters covering topics and historical periods the bibliography provides an annotated list of published materials describing both the history of the industry and significant items of general interest Each chapter is introduced with a short review of historically important issues and comments on the literature and contains contemporary publications as well as more recent material To give the work a continuing usefulness ongoing publications such as computer magazines are highlighted Entries are grouped under nearly 100 subheadings covering such material as contemporary descriptions of hardware and software of the past seminal technical papers industry surveys programming languages significant individuals and companies and the role of Japan and microcomputing All citations are annotated with a brief summary of either the work s contents or its historical importance while two indexes provide both subject references and author citations This bibliography will be an important reference source for courses in the history of data processing and business history and a useful addition to public college and university libraries *Encyclopedia of 20th-century Technology* Colin Hempstead,2005 Comprising 395 essays arranged alphabetically mostly on individual objects artifacts techniques and products this is an up to date work of reference for all those involved in teaching or researching the history of twentieth century technology Publisher s description *Calculating a Natural World* Atsushi Akera,2007 How the complex interplay of academic commercial and military interests produced an intense period of scientific discovery and technological innovation in computing during the Cold War *The Biographical Dictionary of Scientists: Lebedev to Zworykin* Roy Porter,Marilyn Bailey Ogilvie,2000 Third Edition Vol 1 Abbe to Leavitt *American Book Publishing Record* ,1990

The book delves into John Von Neumann And The Origins Of Modern Computing History Of Computing. John Von Neumann And The Origins Of Modern Computing History Of Computing is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into John Von Neumann And The Origins Of Modern Computing History Of Computing, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of John Von Neumann And The Origins Of Modern Computing History Of Computing
 - Chapter 3: John Von Neumann And The Origins Of Modern Computing History Of Computing in Everyday Life
 - Chapter 4: John Von Neumann And The Origins Of Modern Computing History Of Computing in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of John Von Neumann And The Origins Of Modern Computing History Of Computing. The first chapter will explore what John Von Neumann And The Origins Of Modern Computing History Of Computing is, why John Von Neumann And The Origins Of Modern Computing History Of Computing is vital, and how to effectively learn about John Von Neumann And The Origins Of Modern Computing History Of Computing.
 3. In chapter 2, the author will delve into the foundational concepts of John Von Neumann And The Origins Of Modern Computing History Of Computing. The second chapter will elucidate the essential principles that need to be understood to grasp John Von Neumann And The Origins Of Modern Computing History Of Computing in its entirety.
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 6. In chapter 5, this book will draw a conclusion about John Von Neumann And The Origins Of Modern Computing History Of Computing. This chapter will summarize the key points that have been discussed throughout the book.
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