



**JOHN VON NEUMANN
and THE ORIGINS OF
MODERN COMPUTING**
WILLIAM ASPRAY

John Von Neumann And The Origins Of Modern Computing

Jiyuan Zhang

John Von Neumann And The Origins Of Modern Computing:

John Von Neumann and the Origins of Modern Computing William Aspray, 1990 William Aspray provides the first broad and detailed account of von Neumann's many different contributions to computing **A History of Modern Computing, second edition** Paul E. Ceruzzi, 2003-04-08 From the first digital computer to the dot com crash a story of individuals institutions and the forces that led to a series of dramatic transformations This engaging history covers modern computing from the development of the first electronic digital computer through the dot com crash The author concentrates on five key moments of transition the transformation of the computer in the late 1940s from a specialized scientific instrument to a commercial product the emergence of small systems in the late 1960s the beginning of personal computing in the 1970s the spread of networking after 1985 and in a chapter written for this edition the period 1995-2001 The new material focuses on the Microsoft antitrust suit the rise and fall of the dot coms and the advent of open source software particularly Linux Within the chronological narrative the book traces several overlapping threads the evolution of the computer's internal design the effect of economic trends and the Cold War the long term role of IBM as a player and as a target for upstart entrepreneurs the growth of software from a hidden element to a major character in the story of computing and the recurring issue of the place of information and computing in a democratic society The focus is on the United States though Europe and Japan enter the story at crucial points on computing per se rather than on applications such as artificial intelligence and on systems that were sold commercially and installed in quantities **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 reimaging 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 **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 *Nieuw Archief Voor Wiskunde* ,2003 *Proceedings of Symposia in Pure Mathematics* ,1990 **Pioneers in Mathematics** Michael John Bradley,2006 Grace Hopper and the Early History of Computer Programming, 1944-1960 Kurt Beyer,2002 **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 **The Evolution of Interactive Computing Through Time-sharing and Networking** Judy Elizabeth O'Neill,1992 **Biographical Encyclopedia of Mathematicians** Donald R. Franceschetti,1999 Introduces the lives and works of 170 important mathematicians from around the world and throughout history **Magill's Survey of Science: The standard model-X-ray determination of molecular structure** Frank Northen Magill,1992 **Encyclopedia of Science, Technology, and Ethics** Carl Mitcham,2005 This encyclopedia considers both the professional ethics of science and technology and the social ethical and political issues raised by science and technology *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 **Mathematical Reviews** ,1994 **The Publishers' Trade List Annual** ,1995 **History of Mathematics and Education** William Aspray,1996 American National Biography ,1999

The Philosophy of Science Sahotra Sarkar,Jessica Pfeifer,2006 The first in depth reference to the field that combines scientific knowledge with philosophical inquiry this encyclopedia brings together a team of leading scholars to provide nearly 150 entries on the essential concepts in the philosophy of science The areas covered include biology chemistry epistemology and metaphysics physics psychology and mind the social sciences and key figures in the combined studies of science and philosophy Midwest **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.

The Enigmatic Realm of **John Von Neumann And The Origins Of Modern Computing**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **John Von Neumann And The Origins Of Modern Computing** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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John Von Neumann And The Origins Of Modern Computing Introduction

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