

The Origins of Digital Computers

Selected Papers

Edited by Brian Randell



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Origins Of Digital Computers

Brian Randell



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electronic predictors for anti aircraft fire control from 1942 about a computer assisted anti aircraft system Stibitz pointed out the fundamental advantages of merely having to program and compute two discreet voltage levels There is a reference to this technical and historical gap for example in the first volume of the Encyclopedia of Computers and Computer History by Raul Rojas from 2001 It should however be possible to find at least a circuit directly succeeding the trigger relay from 1919 or a first application Indeed an early mention of the onomatopoeic name flip flop can be found in A T Starr s essay A Trigger Peak Voltmeter Using Hard Valves from 1935 In April 1920 around six months after the trigger relay essay was published by Eccles and Jordan Laurence Beddome Turner presented his so called Kallirotron an Aperiodic Negative Resistance Triode Combination

On Alan Turing and the Origins of Digital Computers Brian Randell,1972 **Digital Computer Design** Raymond M. Kline,1977 A History of Computing Technology Michael R. Williams,1997-04-10 This second edition of the popular reference and textbook outlines the historical developments in computing technology The book describes historical aspects of calculation and concentrates on the physical devices used to aid people in their attempts at automating the arithmetic process A History of Computing Technology highlights the major advances in arithmetic from the beginning of counting through the three most important developments in the subject the invention of the zero logarithms and the electronic computer It provides you with an understanding of how these ideas developed and why the latest tools are in their current forms In addition it tells many of the interesting stories about both the machines and the scientists who produced them It focuses on the extraordinary accomplishments of those computer pioneers whose work will stand as proof of their genius and hard work Grace Hopper and the Early History of Computer Programming, 1944-1960 Kurt Beyer,2002

Introduction to the History of Computing Gerard O'Regan,2016-06-21 Tracing the story of computing from Babylonian counting boards to smartphones this inspiring textbook provides a concise overview of the key events in the history of computing together with discussion exercises to stimulate deeper investigation into this fascinating area Features provides chapter introductions summaries key topics and review questions includes an introduction to analogue and digital computers and to the foundations of computing examines the contributions of ancient civilisations to the field of computing covers the first digital computers and the earliest commercial computers mainframes and minicomputers describes the early development of the integrated circuit and the microprocessor reviews the emergence of home computers discusses the creation of the Internet the invention of the smartphone and the rise of social media presents a short history of telecommunications programming languages operating systems software engineering artificial intelligence and databases

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 **Digital Computer Principles** Burroughs Corporation. Technical Training Department,1969 Computers and the Information Society Richard S. Rosenberg,1986 This book should be viewed as a guide to current and future applications of computers and their

associated benefits and problems Among the basic themes presented are the following the increasing importance of information as a commodity in its own right the emergence and influence of artificial intelligence AI the changing nature of work in response to technological innovation the relation between people and computers at work and play the relationship of advances in computer technology and the possibility of increased centralization of authority personal freedom in the machine age with respect to privacy work and play computers as a dominant force in society

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