



NIST Special Publication 730

NBS-INA — The Institute for Numerical Analysis — UCLA 1947–1954

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Nbs Ina Institute For Numerical Analysis

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NBS-INA Magnus Rudolph Hestenes,1991 **NBS-INA, the Institute for Numerical Analysis, UCLA 1947-1954**
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National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1991
The New Era in American Mathematics, 1920-1950 Karen Hunger Parshall,2022-02-22 A meticulously researched history on the development of American mathematics in the three decades following World War I As the Roaring Twenties lurched into the Great Depression to be followed by the scourge of Nazi Germany and World War II American mathematicians pursued their research positioned themselves collectively within American science and rose to global mathematical hegemony How did they do it The New Era in American Mathematics 1920 1950 explores the institutional financial social and political forces that shaped and supported this community in the first half of the twentieth century In doing so Karen Hunger Parshall debunks the widely held view that American mathematics only thrived after European migr s fled to the shores of the United States Drawing from extensive archival and primary source research Parshall uncovers the key players in American mathematics who worked together to effect change and she looks at their research output over the course of three decades She highlights the educational professional philanthropic and governmental entities that bolstered progress And she uncovers the strategies implemented by American mathematicians in their quest for the advancement of knowledge Throughout she considers how geopolitical circumstances shifted the course of the discipline Examining how the American mathematical community asserted itself on the international stage The New Era in American Mathematics 1920 1950 shows the way one nation became the focal point for the field *National Institute of Standards and Technology* United States. Superintendent of Documents,1992 A Century of Excellence in Measurements, Standards, and Technology David R. Lide,2018-02-06 Established by Congress in 1901 the National Bureau of Standards NBS now the National Institute of Standards and Technology NIST has a long and distinguished history as the custodian and disseminator of the United States standards of physical measurement Having reached its centennial anniversary the NBS NIST reflects on and celebrates its first century with this book describing some of its seminal contributions to science and technology Within these pages are 102 vignettes that describe some of the Institute s classic publications Each vignette relates the context in which the publication appeared its impact on science technology and the general public and brief details about the lives and work of the authors The groundbreaking works depicted include A breakthrough paper on laser cooling of atoms below the Doppler limit which led to the award of the 1997 Nobel Prize for Physics to William D Phillips The official report on the development of the radio proximity fuse one of the most important new weapons of World War II The 1932 paper reporting the discovery of deuterium in experiments that led to Harold Urey s1934 Nobel Prize for Chemistry A review of the development of the SEAC the first digital computer to employ stored programs and the first to process images in digital form The first paper

demonstrating that parity is not conserved in nuclear physics a result that shattered a fundamental concept of theoretical physics and led to a Nobel Prize for T D Lee and C Y Yang Observation of Bose Einstein Condensation in a Dilute Atomic Vapor a 1995 paper that has already opened vast new areas of research A landmark contribution to the field of protein crystallography by Wlodawer and coworkers on the use of joint x ray and neutron diffraction to determine the structure of proteins

A Journey through the History of Numerical Linear Algebra Claude Brezinski, Gérard Meurant, Michela Redivo-Zaglia, 2022-12-06 This expansive volume describes the history of numerical methods proposed for solving linear algebra problems from antiquity to the present day The authors focus on methods for linear systems of equations and eigenvalue problems and describe the interplay between numerical methods and the computing tools available at the time The second part of the book consists of 78 biographies of important contributors to the field A Journey through the History of Numerical Linear Algebra will be of special interest to applied mathematicians especially researchers in numerical linear algebra people involved in scientific computing and historians of mathematics

NIST Special Publication ,1988

When Computers Were Human David Alan Grier, 2013-11-01 Before Palm Pilots and iPods PCs and laptops the term computer referred to the people who did scientific calculations by hand These workers were neither calculating geniuses nor idiot savants but knowledgeable people who in other circumstances might have become scientists in their own right When Computers Were Human represents the first in depth account of this little known 200 year epoch in the history of science and technology Beginning with the story of his own grandmother who was trained as a human computer David Alan Grier provides a poignant introduction to the wider world of women and men who did the hard computational labor of science His grandmother s casual remark I wish I d used my calculus hinted at a career deferred and an education forgotten a secret life unappreciated like many highly educated women of her generation she studied to become a human computer because nothing else would offer her a place in the scientific world The book begins with the return of Halley s comet in 1758 and the effort of three French astronomers to compute its orbit It ends four cycles later with a UNIVAC electronic computer projecting the 1986 orbit In between Grier tells us about the surveyors of the French Revolution describes the calculating machines of Charles Babbage and guides the reader through the Great Depression to marvel at the giant computing room of the Works Progress Administration When Computers Were Human is the sad but lyrical story of workers who gladly did the hard labor of research calculation in the hope that they might be part of the scientific community In the end they were rewarded by a new electronic machine that took the place and the name of those who were once the computers

Fred Terman at Stanford C. Stewart Gillmor, 2004 Terman was widely hailed as the magnet that drew talent together into what became known as Silicon Valley

BOOK JACKET Technology Transfer to the Organization of Petroleum Exporting Countries United States. Congress. House. Committee on Science and Technology. Subcommittee on Domestic and International Scientific Planning and Analysis, 1976

Journal of Research of the National Institute of Standards and

Technology ,2006 Reports NIST research and development in the physical and engineering sciences in which the Institute is active These include physics chemistry engineering mathematics and computer sciences Emphasis on measurement methodology and the basic technology underlying standardization **Words and Power** Bernadette Longo,2021-07-26

When viewed through a political lens the act of defining terms in natural language arguably transforms knowledge into values This unique volume explores how corporate military academic and professional values shaped efforts to define computer terminology and establish an information engineering profession as a precursor to what would become computer science As the Cold War heated up U S federal agencies increasingly funded university researchers and labs to develop technologies like the computer that would ensure that the U S maintained economic prosperity and military dominance over the Soviet Union At the same time private corporations saw opportunities for partnering with university labs and military agencies to generate profits as they strengthened their business positions in civilian sectors They needed a common vocabulary and principles of streamlined communication to underpin the technology development that would ensure national prosperity and military dominance investigates how language standardization contributed to the professionalization of computer science as separate from mathematics electrical engineering and physics examines traditions of language standardization in earlier eras of rapid technology development around electricity and radio highlights the importance of the analogy of the computer is like a human to early explanations of computer design and logic traces design and development of electronic computers within political and economic contexts foregrounds the importance of human relationships in decisions about computer design This in depth humanistic study argues for the importance of natural language in shaping what people come to think of as possible and impossible relationships between computers and humans The work is a key reference in the history of technology and serves as a source textbook on the human level history of computing In addition it addresses those with interests in sociolinguistic questions around technology studies as well as technology development at the nexus of politics business and human relations **Chaim L. Pekeris and the Art of Applying Mathematics with WEIZAC,**

1955-1963 Leo Corry,Raya Leviathan,2023-04-24 This book describes the groundbreaking work of Chaim Leib Pekeris and his collaborators Between 1955 and 1963 they used the first electronic computer built in Israel the Weizmann Automatic Computer WEIZAC to develop powerful numerical methods that helped achieve new and accurate solutions of the Boltzmann equation calculate energy levels of the helium atom produce detailed geophysical and seismological models derived from the study of the free oscillations of the earth and refine models used to predict meteorological phenomena and global oceanic tides This book provides a unique account of the pioneering work of Chaim L Pekeris in applied mathematics and explains in detail the background to the rise of the Weizmann Institute as a world class center of scientific excellence This hitherto untold story is of great interest to historians of twentieth century science with special emphasis on the application of computer assisted numerical methods in various branches of mathematical physics *Cornelius Lanczos, Collected*

Published Papers with Commentaries Cornelius Lanczos, William Robert Davis, 1998 Scientific and Technical Aerospace Reports ,1992 **Technical News Bulletin of the National Bureau of Standards** ,1951 Why Computers are Computers David Rutland, 1995 **Linear Algebra and Analysis** Helmut Wielandt, 1996 Keine ausführliche Beschreibung für Linear Algebra and Analysis verfügbar

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