

Instructions of History of Mathematics with Mathematical Machines

수학기계를 활용한 수학사 수업

KWON Oh Nam 권오남 · PARK Jung Sook 박정숙 · KIM Eun Ji* 김은지

Although many people have recognized the importance of history of mathematics in mathematics education, there are few studies that history and mathematics educations are connected. In this paper, we present and discuss the ways of introducing the instruction with mathematics machines. This instruction use the history of mathematics as part of a class not as a tool to stimulate students' interest but as a goal that it can be targeted mathematical itself. To do this, we first analyze the characteristics of applying history of mathematics in mathematical education, second, describe the meaning and the educational value of mathematical machines, and finally explained the way of applying history of mathematics with mathematics machines. The Instruction of history of mathematics with mathematics machines has advantages that practice (manipulation and experiment) and theory (elaboration of definition, production of conjectures and constructions of proofs) are interlaced within a historic-cultural perspective.

Keywords: history of mathematics, mathematics education, mathematical machine; 수학사, 수학교육, 수학기계.

MSC: 97D40 **ZDM:** D44

1 서론

수학사가 수학교육에서 가지는 중요성은 많은 사람들이 인정하고 있지만 수학사와 수학교육을 연결시킨 연구는 많지 않다[7, 9, 13, 14]. 특히 우리나라의 수학 교육과정을 찾아보면 수학사에 대한 언급을 찾을 수 없으며 교과서에 제시된 수학사는 단원의 도입이나 단원의 마무리에 등장하여 학생들의 흥미를 불러일으키기 위한 동기로서의 역할을 할 뿐 수학 학습에서 수학사가 가지는 고유의 장점을 찾을 수 있는 부분은 드물다. 최근

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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 Scientific and Technical Aerospace Reports ,1979 **Technical Abstract Bulletin** Defense Documentation Center (U.S.),1964

Journal of Research of the National Bureau of Standards United States. National Bureau of Standards,1969

NBS Special Publication ,1968 *The Preparation of Programs for an Electronic Digital Computer* Maurice Vincent Wilkes,1951 This is often considered the first book on computer programming It was written for the EDSAC Electronic Delay Storage Automatic Calculator computer that began operation in 1949 as the world s first regularly operated stored program computer The idea of a library of subroutines was developed for the EDSAC and is described in this book Maurice Wilkes lead the development of the EDSAC

Biomedical Research and Computer Application in Manned Space Flight United States. National Aeronautics and Space Administration. Technology Utilization Office,1971 Technology Utilization Program designed to transfer technological developments that may have useful commercial applications From NASA laboratories and contractors aeronautics and space related technology is gathered and evaluated Items which have potential industrial use are made generally available This survey of computer uses in the field of medicine is one of a series of NASA publications that presents information of direct or indirect interest to the non aerospace community This report summarizes the areas of medicine in which computers can be employed and examines in detail several cases where computers have been applied in connection with the medical aspects of NASA s manned space flight program Treated are such problems as those of automated medical data storage and retrieval systems continuous monitoring and interpretation of electrocardiograms and computer aided medical diagnosis The approach is cautious throughout with the emphasis almost constantly on ways to

permit the computer to perform various clerical functions while leaving critical decisions to a human monitor Foreword

Computers in Mathematics V. Chudnovsky, Richard D. Jenks, 1990-05-25 Talks from the International Conference on Computers and Mathematics held July 29 Aug 1 1986 Stanford U Some are focused on the past and future roles of computers as a research tool in such areas as number theory analysis special functions combinatorics algebraic geometry topology physics

Mathematics of Shape Description Pijush K. Ghosh, Koichiro Deguchi, 2009-03-04 Image processing problems are often not well defined because real images are contaminated with noise and other uncertain factors In Mathematics of Shape Description the authors take a mathematical approach to address these problems using the morphological and set theoretic approach to image processing and computer graphics by presenting a simple shape model using two basic shape operators called Minkowski addition and decomposition This book is ideal for professional researchers and engineers in Information Processing Image Measurement Shape Description Shape Representation and Computer Graphics Post graduate and advanced undergraduate students in pure and applied mathematics computer sciences robotics and engineering will also benefit from this book Key Features Explains the fundamental and advanced relationships between algebraic system and shape description through the set theoretic approach Promotes interaction of image processing geochronology and mathematics in the field of algebraic geometry Provides a shape description scheme that is a notational system for the shape of objects Offers a thorough and detailed discussion on the mathematical characteristics and significance of the Minkowski operators

American Book Publishing Record ,1968 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah, 1994 Origins and Foundations of Computing Friedrich L. Bauer, 2009-11-05 The Heinz Nixdorf Museum Forum HNF is the world's largest computer museum and is dedicated to portraying the past present and future of information technology In the Year of Informatics 2006 the HNF was particularly keen to examine the history of this still quite young discipline The short lived nature of information technologies means that individuals inventions devices institutes and companies age more rapidly than in many other specialties And in the nature of things the group of computer pioneers from the early days is growing smaller all the time To supplement a planned new exhibit on Software and Informatics at the HNF the idea arose of recording the history of informatics in an accompanying publication

Mysearchforsuitable sources and authors very quickly came up with the right answer the very first name in Germany Friedrich L. Bauer Professor Emeritus of Mathematics at the TU in Munich one of the fathers of informatics in Germany and for decades the indefatigable author of the Historical Notes column of the journal Informatik Spektrum Friedrich L. Bauer was already the author of two works on the history of informatics published in different decades and in different books Both of them are notable for their knowledgeable extremely comprehensive and yet compact style My obvious course was to motivate this author to amalgamate supplement and illustrate his previous work

Computer Literature Bibliography W. W. Youden, 1965 **Naval Training Bulletin** ,1964 Kurt Gödel and the Foundations of Mathematics Matthias

Baaz,Christos H. Papadimitriou,Hilary W. Putnam,Dana S. Scott,Charles L. Harper, Jr,2011-06-06 This volume commemorates the life work and foundational views of Kurt G del 1906 78 most famous for his hallmark works on the completeness of first order logic the incompleteness of number theory and the consistency with the other widely accepted axioms of set theory of the axiom of choice and of the generalized continuum hypothesis It explores current research advances and ideas for future directions not only in the foundations of mathematics and logic but also in the fields of computer science artificial intelligence physics cosmology philosophy theology and the history of science The discussion is supplemented by personal reflections from several scholars who knew G del personally providing some interesting insights into his life By putting his ideas and life s work into the context of current thinking and perceptions this book will extend the impact of G del s fundamental work in mathematics logic philosophy and other disciplines for future generations of researchers

Rough Sets and Intelligent Systems - Professor Zdzisław Pawlak in Memoriam Andrzej Skowron,Zbigniew Suraj,2012-08-16 This book is dedicated to the memory of Professor Zdzisław Pawlak who passed away almost six years ago He is the founder of the Polish school of Artificial Intelligence and one of the pioneers in Computer Engineering and Computer Science with worldwide influence He was a truly great scientist researcher teacher and a human being This book prepared in two volumes contains more than 50 chapters This demonstrates that the scientific approaches discovered by Professor Zdzisław Pawlak especially the rough set approach as a tool for dealing with imperfect knowledge are vivid and intensively explored by many researchers in many places throughout the world The submitted papers prove that interest in rough set research is growing and is possible to see many new excellent results both on theoretical foundations and applications of rough sets alone or in combination with other approaches We are proud to offer the readers this book

Second Handbook of Research on Mathematics Teaching and Learning Frank K. Lester,2007-02-01 The audience remains much the same as for the 1992 Handbook namely mathematics education researchers and other scholars conducting work in mathematics education This group includes college and university faculty graduate students investigators in research and development centers and staff members at federal state and local agencies that conduct and use research within the discipline of mathematics The intent of the authors of this volume is to provide useful perspectives as well as pertinent information for conducting investigations that are informed by previous work The Handbook should also be a useful textbook for graduate research seminars In addition to the audience mentioned above the present Handbook contains chapters that should be relevant to four other groups teacher educators curriculum developers state and national policy makers and test developers and others involved with assessment Taken as a whole the chapters reflect the mathematics education research community s willingness to accept the challenge of helping the public understand what mathematics education research is all about and what the relevance of their research findings might be for those outside their immediate community

Choice ,1968

A DDC Bibliography on Computer-aided Logical Processes Defense

Documentation Center (U.S.),1968

Literature 1970, Part 1 Siegfried Böhme,Walter Fricke,Ulrich

Güntzel-Lingner,Frieda Henn,Dietlinde Krahn,Gert Zech,2013-04-18 Astronomy and Astrophysics Abstracts which appears in semi annual volumes is devoted to the re cording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals com pared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 3 contains literature published in 1970 and received before August IS 1970 some older lite rature which was received late and which is not recorded in earlier volumes is also included

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