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Computer Occupations

Computer Occupations
Delphi Productions, 1997
VC 004.023 C739 (47 min.)

Summary: Presents background information on a variety of careers available in the computer professions, exploring such information as educational requirements, salary potential, and job outlook for the professions in years to come.

History of Computing

The Machine That Changed the World
Films for the Humanities, 1992
VC 004 M184 (58 minutes each - closed captioned for the hearing impaired)

Contents: Pt. 1. Giant Brains; Pt. 2. Inventing the Future; Pt. 3. The paperback computer; Pt. 2. The Thinking Machine; Pt. 4 The World at your Fingertips

Summary: This series traces the history of computers, from ENIAC to the Apple. It discusses the people and companies involved in the development of computers, and the social repercussions of the computer revolution.

Triumph of the Nerds: an irreverent history of the PC industry
Ambrose Video, 1996
VC 338.761 T739 (55 minutes each)

Contents: Pt. 1. Impressing their Friend; Pt. 2. Riding the Bear; Pt. 3. Great Artists Steal

Summary: Triumph of the Nerds is an irreverent, witty and energetic history of the personal computer industry and its creators, based on the best-selling book, Accidental Empires.

Nerds 2.0.1 A Brief History of the Internet
PBS Public Broadcasting, 1998
VC 338.761 N355 (180 min.)


Summary: A three part series examining the ins and outs of one of the most volatile industries: the Internet. The first episode examines how the seeds of the Internet were planted by Sputnik. The second episode examines the advent of the PC and the need to
connect them all to a network. The third episode visits Excite, a typical Silicon Valley entrepreneurial adventure, as well as describing how the Internet became a comfortable environment to do business, chat, and go shopping.

**Women in Computer Science**  
*Computing Research Association, 1995*  
VC 004.082 W842c (55 minutes)

**Summary:** Mildred Dresselhaus begins her lecture with anecdotes about the life and work of Grace Hopper and then talks about how women have advanced in industry and in science and engineering. She also speaks about her personal perspectives as a woman working in science.

**Women in the History of Computer Science**  
*Computing Research Association, 1997*  
VC 004.082 W842h (90 minutes)

**Summary:** A panel of women pioneers of the 1940s and 1950s discuss their experiences, from programming the world's first computing machines to developing biomedical and graphical applications for computers.

**Interface video recording: The Future of Technology**  
*Jones Education Media, 1997*  
VC 302.23 In8 (23 minutes)

**Summary:** Shows a vision for next century, transforming the technology that changes the way we communicate.

**Wired World**  
*National Geographic Television, 1997*  
VC 302.2 W743 (25 minutes)

**Summary:** Presents a history of communication from cave drawings to computers. Includes a teacher's guide with objectives.
The Internet

An Introduction to Internet
*Free Range Media, 1994*
VC 384.3 IN8I (30 min.)

**Summary:** Designed with the novice PC user in mind, this tutorial is both fun and interesting with interviews and demonstrations from actual Internet users. You will be shown the basic protocols of E-Mail, File Transfer Protocol and Telnet as well as the latest Internet tools such as Gopher, World Wide Web, Archie, Veronica and WAIS.

Computer security
*Films for the Humanities & Sciences, 2001*
VC 364.168 C739CS (30 min)

**Summary:** Describes the various components of computer security, including identification, access control, and confidentiality. Discusses the problem of attacks on data and describes various hardware and software solutions. Stresses the need for risk assessment in both small and large firms and demonstrates the ease with which an outsider can gain access to a company's data.

Cybercrime: invisible threat
*Films for the Humanities & Sciences, 2002*
VC 364.168 C992C (53 min.)

**Summary:** Examines the Internet's exponential growth and evaluates risks posed by groups and individuals bent on crime or terrorism. Experts from the FBI, the Pentagon, and private companies, and even a self-confessed hacker comment on the danger of online fraud and denial of service attacks as well as on anti-hacking and biometric identification as ways of protecting the World Wide Web--and perhaps the world itself.

Forbidden places: unauthorized access
*Films for the Humanities & Sciences, 1997*
VC 364.168 F747P

**Summary:** Examines the world of technological crime, from computer hacking to telecommunications fraud involving vast sums, providing insight into the depth of the problem and what is being done to prevent it. Interviews with former FBI and CIA agents and members of the "hackers" community present the problem from both sides of the law.
Hackers
Films for the Humanities and Sciences, 2002
VC 364.168 H115HC (48 min.)

Summary: This program examines the role of hackers and reveals how their exploits highlight the profound insecurities of the Internet and the software that drives it.

Internet: a practical approach
PBS Adult Learning Satellite Service, 1994
VC 384.3 IN8 (178 min.)

Summary: This program will help students learn what is on the Internet, how to use electronic mail, and other retrieval methods.

Internet Curriculum Integration
Classroom Connect, 1996
VC 371.3 In8 (28 min. ea.)

Contents: Pt. 1. Curriculum integration 101; Pt. 2. Creating Internet lesson plans; Pt. 3. Creating Internet projects

Summary: These programs give step-by-step instructions to successfully integrate the Internet into your classroom.

Learning online: using the Internet for education
National TeleLearning Network, 1997
VC 025.0637 L479 (90 min.)

Abstract: In this program, a panel of educators discusses using the Internet as a classroom teaching tool.

Technology & Legal Issues: Part 1, Ownership & copyright on the Web
Computer Channel, 1997
VC 346.7304 T226 (55 min.)

Contents: Copyright law: copyright myths, types of infringement, case study (RTC vs. Netcom) -- Avoiding copyright problems: Web page development (detailed agreements, copyright notice, hypertext links), NII white paper, international copyright treaty -- Trademark law: types of trademark infringement, protectable marks & consumer confusion, domain name disputes -- Avoiding trademark problems -- Jurisdiction -- CDA Communications Decency Act.
The Internet: behind the web
_A&E Home Video, 2000_
VC 004.67 IN8B (50 min.)

**Summary:** A look at the history and development of the internet.

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**Reference Books**
*Located in the Garvin H. Johnston stacks*

**C Memory Management Techniques (Dorman, Neuberger)**
_Whinderest/McGraw Hill, 1993_
005.43 D732c

**Summary:** _C Memory Management Techniques_ contains all the hands-on tools needed to create memory-efficient application programs. The clear, step-by-step instructions and extensive source code make it easy to take advantage of extended, expanded, and hard disk memory. After an overview of PC memory management, a wealth of sample programs is provided for EMS 3.0, 3.2, and 4.0, as well as SMS 2.0. A full demo program source code can be found for each Ems and XMS function covered. Also included is the source code for a powerful set of virtual memory allocation functions that will give the program dynamic access to memory areas in the multi-megabyte range. In addition, a complete library of ready to use memory management functions is provided on disk.

**C++ Neural Networks and Fuzzy Logic (Rao, V.B and Rao, H. V.)**
_MIS:Press, 1993_
006.3 R18c

**Summary:** _C++ Neural Networks And Fuzzy Logic_ is a manual, complemented by a programming disk, providing a logical and easy-to-follow progression through topics in C++ programming for Neural Networks, and Fuzzy Logic technologies. The authors present numerous examples in C++ for use with most C++ compilers, including Borland and Microsoft C++. With real-world examples, the user is shown how to implement these new technologies in applications. To demonstrate the diverse ways in which these technologies can be applied, the user will find examples in the fields of pattern recognition, optimization and financial modeling. Also included is working code with which the user can experiment to increase his knowledge of the subject matter.

**Exploring Mathematics with Your Computer (Engel)**
_Mathematical Association of America, 1993_
Summary: Exploring Mathematics With Your Computer is a mathematics, not a programming book. It is intended for students, mathematics' teachers, and mathematicians who are just starting to explore mathematics on their own computer. In studying it, and especially in working through its exercises students will get to know many new, elementary topics and learn as much from the extensive exercises as from the examples. It includes a large number of challenging problems, which illustrate how computing leads to conjectures; many of which can then be proven by mathematical reasoning. The manual and program disk use Turbo Pascal. Only a fragment of the dialect is needed, and is easily picked up by readers as they work their way through the examples and exercises. The programs are short and, for the most part, comprehensible without comment.

Finite Elements 1-2-3 (Baker, Pepper)
*McGraw-Hill, 1991*
620.0015 B171f

Summary: Finite Elements 1-2-3 and the accompanying PC-based Computational Mechanics laboratory have emerged from over a decade of learning how to teach the introductory level of finite element analysis to practicing engineers functioning in the real world. This program is written specifically for the bachelor's level engineer, scientist, and / or upper-division undergraduate student with a curiosity about, to little or no experience with, the finite element method. The methods of the finite element method for solving diffusion and transport equations are developed throughout the text, and the resulting algorithm logic is implemented within the provided computer program diskette.

Fractal Programming In Turbo Pascal (Stevens)
*M&T Books, 1990*
005.133 St47f

Summary: Fractal Programming In Turbo Pascal is a comprehensive reference that provides students with the tools needed to program the many fractal curves already invented. Fractal Programming in Turbo Pascal develops the user's understanding of the many different types of fractal curves while creating computer programs to generate these fascinating curves. These practical programs teach students the techniques needed to generate pictures that have both amazing beauty and an underlying mathematical meaning. The user will find discussions of well-known fractal curves such as the van Koch snowflake, the Gosper curve, dragon curves, and the Mandelbrot set, together
with the source code for plotting and investigation them. Also included is a detailed
description of how to create displays of the Julia set, and Turbo Pascal programs to
reproduce the more than 100 black-and white fractals and 32 full-colored fractals
illustrated throughout the book and source diskette.

**True Basic Reference Manual (Kemeny, Kurtz)**
*True BASIC, Inc., 1988*
005.133 K314r

**Summary:** True Basic is a manual and Language system and Runtime Package diskette that
tells how to use TRUE BASIC on you IBM PC, PS/2, or compatible. It is not an
introduction to BASIC.

**Manuals**

**Microsoft Office 2007: Introductory Concepts and Techniques (Shelly)**
*Thomson Course Technology, 2008*
MAN 005.369 Sh44m

**Summary:** Microsoft Office 2007: Introductory Concepts and Techniques is a step-by-step,
screen-by-screen approach that encourages understanding of the Microsoft Office 2007
software through experimentation, exploration, and planning ahead. End-of-chapter
exercises prepare users by requiring them to use critical thinking and problem-solving
skills to create real-life documents.