

<<计算机文化>>

图书基本信息

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前言

Synchronicity. It's all about students and instructors tuning in to each other. And technology makes it possible. In a world of networks, e-mail, webinars, and social networking sites, technology can certainly strengthen the link between instructors and students. New for this edition. In NP2011, you'll find information on cutting-edge hardware technology such as NETBOOKS, SOLID STATE DISKS, and OLED DISPLAYS. There's coverage of TWITTER, ANDROID, BING, and other new software. This edition has current statistics on SOFTWARE PIRACY and the effect of computers on the ENVIRONMENT, as well as a breakdown of the latest technical jargon you need when shopping for computer gear. Make sure you try our new CHIRPS feature to send questions to your instructor. NP2011 covers multiple operating system platforms. Whether you use a PC running WINDOWS 7, VISTA, OR XP or a Mac running MAC OS X, all the TRY IT! instructions in the Orientation and at the beginning of every chapter are designed to work on your computer. THE BOOK New Perspectives on Computer Concepts gives you the straight story on today's technology. The style has been carefully honed to be clear, concise, and visual. Easy to read Each chapter is divided into five sections, offering a chunk of information that's easy to assimilate in one study session. FAeS answer commonly asked questions about technology and help you follow the flow of the presentation. Keeps you on track QUICKCHECKS at the end of each section help you find out if you understand the most important concepts. As you read the chapter, look for the answers to the questions posed as Learning Objectives.

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内容概要

《计算机文化（英文版·第13版）》采用最先进的方法和技术讲述计算机基础知识，涉及面之广、内容之丰富、方法之独特，令人叹为观止，堪称计算机基础知识的百科全书。

《计算机文化（英文版）》涵盖影响计算和日常生活的重要技术趋势，对数据安全、个人隐私、在线安全、数字版权管理、开源软件和便携式应用程序、上网本的流行以及mac计算机的热卖进行了广泛讨论。

全书层次合理、图文并茂，各章还配有测验，非常适合作为高校各专业的计算机导论教材和教师参考书，也可供广大计算机爱好者参考使用。

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作者简介

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书籍目录

chapter 1 computers and digital basics section a: all things digital the digital revolution convergence digital society quickcheck a section b: digital devices computer basics personal computers, servers, mainframes, and supercomputers pdas, smart phones, and portable media players microcontrollers quickcheck b section c: digital data representation data representation basics representing numbers, text, and pictures quantifying bits and bytes circuits and chips quickcheck c .section d: digital processing programs and instruction sets processor logic quickcheck d section e: password security authentication protocols password hacks secure passwords quickcheck e

chapter 2 computer hardware section a: personal computer basics personal computer systems desktop and portable computers home, game, and small business systems buying computer system components quickcheck a section b: microprocessors and memory microprocessor basics today's microprocessors random access memory read-only memory eeprom quickcheck b section c: storage devices storage basics magnetic disk and tape technology cd, dvd, and blu-ray technology solid state storage storage wrapup quickcheck c section d: input and output devices basic input devices display devices printers installing peripheral devices quickcheck d section e: hardware security anti-theft devices surge protection and battery backup basic maintenance troubleshooting and repair quickcheck e

chapter 3 computer software section a: software basics software categories application software utility software device drivers quickcheck a section b: popular applications document production software spreadsheet software "number crunching" software database software graphics software music software video editing and dvd authoring software educational and reference software entertainment software business software quickcheck b section c: buying software consumer basics software copyrights and licenses quickcheck c section d: installing software and upgrades installation basics installing local applications installing portable software and web apps software updates uninstalling software quickcheck d section e: security software security software basics security suites antivirus modules quickcheck e

chapter 4 operating systems and file management section a: operating system basics operating system activities user interfaces the boot process quickcheck a section b: today's operating systems microsoft windows mac os unix and linux dos handheld operating systems quickcheck b section c: file basics file names and extensions file directories and folders file formats quickcheck c section d: file management application-based file management file management utilities file management metaphors windows explorer file management tips physical file storage quickcheck d section e: backup security backup basics file copies and synchronization system synchronization file and system backup bare-metal restore and virtual machines quickcheck e

chapter 5 lans and wlans section a: network building blocks network classifications lan standards network devices clients, servers, and peers physical topology network links communications protocols quickcheck a section b: wired networks wired network basics homepna and powerline networks ethernet ethernet equipment ethernet setup quickcheck b section c: wireless networks wireless basics bluetooth wi-fi wi-fi equipment wi-fi setup quickcheck c section d: using lans lan advantages and challenges sharing files sharing printers lan parties troubleshooting quickcheck d section e: security through encryption wi-fi security encryption quickcheck e

chapter 6 the internet section a: internet technology background internet infrastructure internet protocols, addresses, and domains connection speed quickcheck a section b: fixed internet access dial-up connections dsl, isdn, and dedicated lines cable internet service satellite internet service fixed wireless service fixed internet connection roundup quickcheck b section c: portable and mobile internet access internet to go wi-fi hotspots portable and mobile wimax portable satellite service cellular data services quickcheck c section d: internet services real-time messaging voice over ip grid computing ftp file sharing quickcheck d section e: internet security intrusion attempts securing ports routers and nat virtual private networks quickcheck e

chapter 7 the web and e-mail section a: web technology web basics html http web browsers cookies web page authoring html scripts quickcheck a section b: search engines search engine basics formulating searches citing web-based source material quickcheck b section c: e-commerce e-commerce basics online shopping online auctions online payment quickcheck c section d: e-mail e-mail overview netiquette e-mail technology quickcheck d section e: web and e-mail security cookie exploits spam phishing fake sites quickcheck e

chapter 8 digital media section a: digital sound digital audio basics portable audio

players midi music speech recognition and synthesis quickcheck a section b: bitmap graphics bitmap basics
scanners and cameras image resolution' color depth and palettes image compression bitmap graphics formats
quickcheck b section c: vector and 3-d graphics vector graphics basics vector-to-bitmap conversion vector
graphics on the web 3-d graphics quickcheck c section d: digital video digital video basics producing video footage
video transfer video editing video output desktop, pda, and web video dvd-video quickcheck d section e: digital
rights management drm basics signal scrambling and digital watermarks cd copy protection dvd and blue-ray drm
drm for digital downloads quickcheck e chapter 9 the computer industry: history, careers, and ethics section a:
computer history manual calculators mechanical calculators computer prototypes generations of computers
personal computers quickcheck a section b: the computer and it industries industry overview economic factors
product development market share marketing channels industry regulation ouickcheck b section c: careers for
computer professionals jobs and salaries education and certification job hunting basics resumes and web portfolios
job listings quickcheck c section d: professional ethics ethics basics it ethics ethical decision making whistleblowing
ouickcheck d section e: work area safety and ergonomics radiation risks repetitive stress injuries eye strain back
pain sedentary lifestyle quickcheck e chapter 10 information systems analysis and design section a: information
systems information systems in organizations transaction processing systems management information systems
decision support systems expert systems and neural networks quickcheck a section b: systems analysis system
development life cycle planning phase analysis phase documentation tools quickcheck b section c: system design
design phase evaluation and selection application specifications quickcheck c section d: implementation and
maintenance implementation phase development and testing documentation and training conversion and cutover
maintenance phase quickcheck d section e: corporate data security information system data vulnerabilities
information system data security corporate identity theft quickcheck e chapter 11 databases section a: file and
database concepts database basics database models ouickcheck a section b: data management tools data
management software database management systems databases and the web xml ouickcheck b section c: database
design defining fields normalization organizing records designing the interface designing report templates loading
data quickcheck c section d: sql sol basics adding records searching for information updating fields joining tables
quickcheck d section e: database security database vulnerabilities database security measures database security
regulations what individuals can do quickcheck e chapter 12 computer programming section a: programming
basics computer programming and software engineering programming languages and paradigms program
planning program coding program testing and documentation programming tools quickcheck a section b:
procedural programming algorithms expressing an algorithm sequence, selection, and repetition controls
procedural languages and applications quickcheck b section c: object-oriented programming objects and classes
inheritance methods and messages object-oriented program structure object-oriented languages and applications
quickcheck c section d: declarative programming the declarative paradigm prolog facts prolog rules input
capabilities declarative languages and applications quickcheck d section e: secure programming black hat exploits
secure software development mitigation quickcheck e quickcheck answers glossary

章节摘录

插图：What is solid state storage ?

Solid state storage (sometimes called flash memory) is a technology that stores data in erasable, rewritable circuitry, rather than on spinning disks or streaming tape. It is widely used in portable consumer devices, such as digital cameras, MP3 music players, PDAs, and cell phones. It is also used as an alternative for hard disk storage in some notebook computers and netbooks. Solid state storage is removable and provides fairly fast access to data. It is an ideal solution for storing data on mobile devices and transporting data from one device to another. How does solid state storage work ?

Solid state storage contains a gridwork of circuitry. Each cell in the grid contains two transistors that act as gates. When the gates are open, current can flow and the cell has a value that represents a "1" bit. When the gates are closed by a process called Fowler-Nordheim tunneling, the cell has a value that represents a "0" bit. Very little power is required to open or close the gates, which makes solid state storage ideal for battery-operated devices, such as digital cameras and PDAs. Once the data is stored, it is non-volatile—the chip retains the data without the need for an external power source. Solid state storage provides fast access to data because it includes no moving parts. This storage technology is very durable—it is virtually impervious to vibration, magnetic fields, or extreme temperature fluctuations. On the downside, the capacity of solid state storage does not currently match that of hard disks. The cost per megabyte of solid state storage is slightly higher than for magnetic or optical storage.

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媒体关注与评论

本书的编写风格非常清晰，章节的划分合理实用。

书中包含的技术信息对于那些已经初步了解基本计算机概念的学生既轻松有趣又非常实用。

——Martha Lindberg，明尼苏达州立大学 本书以学生易于理解的方式将计算机系统的基本概念和技术娓娓道来，每章还辅以精选的示例和插图，是一本内容全面、易学易懂的计算机导论教材。

——Gerald Hensel，巴伦西亚社区学院

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