

<<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

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## 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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