

# 新编

# 计算机英语教程

## Computer English

钟庆伦 张 政 徐光衷 石洪宇



西安交通大学出版社

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## 内容提要

本书共有 19 个单元,每单元由课文、单词、词组、注释、填空、判断正误、阅读理解、翻译等组成。书后附有参考译文和答案,供读者自检自测。本书可作为大、中专学生的专业英语教材,也可供计算机爱好者和英语爱好者使用,旨在提高读者实际使用英语的能力及计算机的知识,达到事半功倍的效果。

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## 新编计算机英语教程

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钟庆伦 张 政 徐光袁 石洪宇

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# 前 言

自 20 世纪 40 年代第一台计算机问世以来,其发展速度是任何其它领域无法比拟的,硬件每三年左右更新一次,而软件大约一年更新一次版本,昨天还是陌生的“声霸”、“多媒体”、“互联网”,今天已不再新鲜。计算机的应用更是史无前例,无论从工业、农业、国防到人们的日常生活,还是从航天、制药、生化到遗传工程,计算机无处不在,可以说 21 世纪是计算机的世纪,没有计算机人们将一事无成。因此,要了解计算机的发展方向,掌握最新的计算机技术,就要求计算机行业的人有较高的外语水平,可以毫不夸张地说,外语水平如何是决定计算机技术人员成就的重要因素之一。

为了提高读者的实际使用英语的能力,我们编写了这本《新编计算机英语教程》,该书共分 19 个单元,每单元由课文、词汇和练习组成。课文均出自英美原文,语言地道、规范;练习由填空、判断正误、阅读理解、翻译等,旨在检查读者对课文的理解和掌握。

在成书的过程中,美籍专家埃夫雷斯特·梅茨勒(Everest Metzler)给予热情的帮助,并提出了宝贵的意见,洛阳工学院计算机专业的研究生郭跟成、管萍同学翻译了大部分课文。在此向他们表示感谢。

本书可作为大、中专学生的专业英语教材和各类计算机短训班教材,也可供计算机爱好者和英语爱好者使用。由于时间仓促,在编写中难免有不当之处,请读者不吝赐教。

编 者

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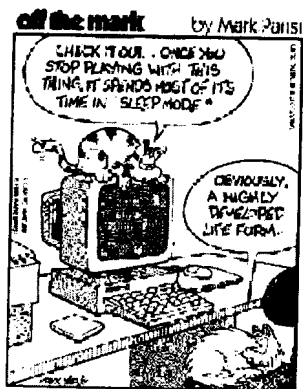
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## Unit 1



DEFINTION: Computer—A device designed to speed and automate errors.

# Microcomputer

## Its Origins and Developments

Microcomputer is a desktop-or notebook-size computing device that uses a microprocessor as its central processing unit, or CPU<sup>1</sup>. Microcomputers are also called personal computers (PCs)<sup>2</sup>, home computers, small-business computers, and micros. The smallest, most compact are called laptops. When they first appeared, they were considered single-user devices, and they were capable of handling only four, eight, or 16 bits of information at one time. More recently the distinction between microcomputers and large, mainframe computers (as well as the smaller mainframe-type systems called minicomputers) has become blurred, as newer microcomputer models have increased the speed and data-handling capabilities of their CPUs into 32-bit or even 64-bit multiuser range.

Microcomputers are designed for use in homes, schools, and office settings. Within the home, they can serve both as a tool for home management (balancing the family checkbook, structuring the family budget, indexing recipes) and as a recreational device (playing computer games, cataloging records and books). Schoolchildren can use microcomputers for doing their homework, and in fact many public schools now employ the devices for programmed learning and computer-literacy courses. Small businesses may purchase microcomputers for word processing, bookkeeping, and the storage and handling of mailing lists.

## Origins

Microcomputers were made possible by two technical innovations in the field of microelectronics: the integrated circuit, or IC<sup>3</sup>, which was developed in 1959; and the microprocessor, which first

appeared in 1971. The IC permitted the miniaturization of computer-memory circuits, and the microprocessor reduced the size of a computer's CPU to the size of a single silicon chip.

Because a CPU calculates, performs logical operations, contains operating instructions, and manages data flows, the potential existed for developing a separate system that could function as a complete microcomputer. The first such desktop-size system specifically designed for personal use appeared in 1974; it was offered by Micro Instrumentation Telemetry Systems (MITS)<sup>4</sup>. The owners of the system were then encouraged by the editor of a popular technology magazine to create and sell a mail-order computer kit through the magazine. The computer, which was called Altair, retailed for slightly less than \$ 400. The demand for the microcomputer kit was immediate, unexpected, and totally overwhelming. Scores of small entrepreneurial companies responded to this demand by producing computers for the new market. The first major electronics firm to manufacture and sell personal computers, Tandy Corporation, introduced its model in 1977. It quickly dominated the field, because of the combination of two attractive features: a keyboard and a cathode-ray display terminal (CRT)<sup>5</sup>. It was also popular because it could be programmed and the user was able to store information by means of cassette tape.

Soon after Tandy's new model was introduced, two engineer-programmers—Stephen Wozniak and Steven Jobs—started a new computer manufacturing company named Apple Computers<sup>6</sup>. Some of the new features they introduced into their own microcomputers

were expanded memory, inexpensive disk-drive programs and data storage, and color graphics. Apple Computers went on to become the fastest-growing company in U. S. business history. Its rapid growth inspired a large number of similar microcomputer manufacturers to enter the field. Before the end of the decade, the market for personal computers had become clearly defined.

In 1981, IBM<sup>7</sup> introduced its own microcomputer model, the IBM PC. Although it did not make use of the most recent computer technology, the PC was a milestone in this burgeoning field. It proved that the microcomputer industry was more than a current fad, and that the microcomputer was in fact a necessary tool for the business community. The PC's use of a 16-bit microprocessor initiated the development of faster and more powerful micros, and its use of an operating system that was available to all other computer makers led to a standardization of the industry.

## **Later Developments**

In the mid-1980s, a number of other developments were especially important for the growth of microcomputes. One of these was the introduction of a powerful 32-bit computer capable of running advanced multi-user operating systems at high speeds. This has dulled the distinction between microcomputers and minicomputers, placing enough computing power on an office desktop to serve all small businesses and most medium-size businesses.

Another innovation was the introduction of simpler, "user-friendly" methods for controlling the operations of microcomputers.

By substituting a graphical user interface (GUI) for the conventional operating system, computers such as the Apple Macintosh allow the user to select icons – graphic symbols of computer functions – from a display screen instead of requiring typed commands. New voice-controlled systems are now available, and users may eventually be able to use the words and syntax of spoken language to operate their micro-computers.

### New Words

microcomputer ['maɪkrəʊkəm'pjʊ:tə] n. 微型计算机, 微电脑, 微机

desktop ['desktp] n. 桌面

notebook-size ['nəʊtbʊk'saɪz] 笔记本大小的

device [di'vaɪs] n. 设备

microprocessor [ˌmaɪkrəʊ'prəʊsesə] n. 微处理器

compact [kəm'pækt] a. 紧密的

lap-top [læp'tɒp] n. 膝上型(计算机)

handle ['hændl] vt. 处理, 操作

distinction [dɪs'tɪŋkʃən] n. 区别

mainframe ['meɪnfreɪm] n. 主机

minicomputer ['mɪnɪkəm'pjʊ:tə] n. 小型机

blur [blə:] vt. 使模糊

multi-user ['mʌltɪ'ju:zə] n. 多用户

range ['reɪndʒ] n. 范围

setting ['setɪŋ] n. 环境, 背景

balance ['bæləns] vt. 使平衡, 结算

checkbook ['tʃekbʊk] n. 支票簿

structure ['strʌktʃə] n. vt. 组织, 结构  
 budget ['bʌdʒɪt] n. 预算  
 index ['indeks] n. 索引; vt. 编入索引中  
 recipe ['resɪpi] n. 食谱, 处方, 秘诀  
 recreational [rekri'eɪʃənəl] a. 娱乐的, 休养的  
 catalog ['kætəlɒɡ] n. 目录; vt. 编目录  
 literacy ['lɪtərəsi] n. 识字, 读写能力  
 purchase ['pɜ:tʃəs] n. 购买; vt. 购买, 赢得, 努力取得  
 bookkeeping ['bukki:piŋ] n. 簿记  
 origin ['ɒrɪdʒɪn] n. 起源  
 innovation [ɪnou'veɪʃən] n. 改革, 创新  
 microelectronics ['maɪkrouɪlek'trɒnɪks] n. 微电子学  
 miniaturization [mɪnjətʃəraɪ'zeɪʃən] n. 小形化  
 memory ['meməri] n. 内存, 存储器  
 silicon ['sɪlɪkən] n. 硅, 硅元素  
 chip [tʃɪp] n. 晶片  
 calculate ['kælkjuleɪt] v. 计算  
 perform [pə'fɔ:m] vt. 执行, 完成  
 logical ['lɒdʒɪkl] a. 逻辑的  
 operation [ɒpə'reɪʃən] n. 操作, 运算  
 dataflow ['deɪtəfləʊ] 数据流  
 potential [pə'tenʃəl] n. 潜力, 潜能, 潜在性  
 telemetry [ti'lemɪtri] n. 遥感探测, 自测量  
 mail-order [meɪl'ɔ:də] n. v. 邮购  
 kit [kɪt] n. 套件  
 retail [ri'teɪl] n. v. 零售  
 overwhelming [ˌoʊvə'hwelmɪŋ] a. 压倒性的, 无法抵抗的  
 entrepreneur [ˌɒntreɪprə'nɔ:] n. 企业家, 主办人

dominate ['dɒmineɪt] v. 支配, 占优势  
 feature ['fi:tʃə] n. 特征, 特色  
 cassette tape n. 盒式磁带  
 expand [iks'pænd] vt. 扩张, 使膨胀  
 expanded memory 扩展内存  
 disk-drive n. 磁盘驱动器  
 inspire [in'spaɪə] vt. 激发, 启示, 鼓舞; vi. 吸入, 赋予灵感  
 milestone ['maɪlstəʊn] n. 里程碑  
 burgeon ['bɜ:dʒən] n. 芽; v. 萌芽  
 fad [fæd] n. 时尚, 一时流行的狂热  
 community [kə'mju:nɪti] n. 社区, 共同体  
 initiate [ɪi'nʃieɪt] vt. 开始  
 dull [dʌl] vt. 缓和, 使迟钝  
 substitute ['sʌbstɪtju:t] n. v. 代替, 代理  
 conventional [kən'venʃənəl] a. 传统的, 约定的, 习惯的  
 icon ['aɪkən] n. 图标  
 symbol ['sɪmbəl] n. 符号  
 eventually [ɪ'ventʃuəli] adv. 最后, 终于

### Phrases and Expressions

be capable of 能够  
 at one time 每次  
 serve as 作为……起作用  
 in the field of 在……领域  
 by means of 通过……的方法; 借助于  
 lead to 导致  
 a number of 若干; 许多

## Notes

1. CPU: Central Processing Unit 的缩写, 中央处理单元
2. PC: Personal Computer 的缩写, 个人计算机
3. IC: Integrated Circuit 的缩写, 集成电路
4. MITS: Micro Instrumentation Telemetry System 的缩写, 微型  
遥感测量仪器系统公司
5. CRT: Cathode-Ray Tube 的缩写, 阴极射线管
6. Apple Computers: 苹果计算机公司
7. IBM: International Business Machine Corporation 的缩写, 国际  
商用机器有限公司
8. GUI: Graphical User Interface 的缩写, 图形用户接口

## Exercises

### I. Explain the following abbreviations.

1. CPU: \_\_\_\_\_
2. PC: \_\_\_\_\_
3. IC: \_\_\_\_\_
4. CRT: \_\_\_\_\_
5. IBM: \_\_\_\_\_
6. GUI: \_\_\_\_\_

### II. True or False?

1. The central processing unit is the heart of a computer.
2. Nowadays, there are still great distinctions between microcomputers and minicomputers, especially in speed.



3. IBM PC is the first desktop-size system designed for personal use.
4. Without two technical innovations, i. e. IC and microprocessor, in the field of microelectronics, PC would not have appeared.
5. The market for microcomputers had been clearly defined before 1980.
6. A voice-controlled PC is nothing but a dream.

### III. Fill in the blanks:

1. PCs are manufactured for use in \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ settings.
2. The computer offered by MITS Corp. in 1974 was called \_\_\_\_\_.
3. In 1977, Tandy's model of computers quickly dominated the field because of its two attractive features: a \_\_\_\_\_ and a \_\_\_\_\_ which was abbreviated to CRT.
4. Some of the new features introduced by Apple company in the 1970s were \_\_\_\_\_, inexpensive \_\_\_\_\_ and \_\_\_\_\_.
5. IBM PC was a milestone in PC industry because of the use of \_\_\_\_\_ and \_\_\_\_\_.
6. In the mid-1980s, two most important developments for the growth of microcomputers were the introduction of a powerful \_\_\_\_\_ computer and of simpler, \_\_\_\_\_ methods, for controlling the operations of microcomputers.

### IV. Choose the best answer.

1. Microcomputers have \_\_\_\_\_ different names.  
a. 1