



“十二五”职业教育国家规划教材
经全国职业教育教材审定委员会审定

计算机英语

English on Computer Science

主编 牛长清



教育科学出版社
ESPH Educational Science Publishing House



“十二五”职业教育国家规划教材
经全国职业教育教材审定委员会审定

计算机英语

English on Computer Science

主编 牛长清

教育科学出版社
· 北 京 ·

出版人 所广一
责任编辑 王峥媚 尹甜甜
版式设计 北京广联信达文化发展有限公司 郝晓红
责任校对 贾静芳
责任印制 曲凤玲

图书在版编目(CIP)数据

计算机英语 / 牛长清主编. —北京: 教育科学出版社, 2014. 8

“十二五”职业教育国家规划教材

ISBN 978-7-5041-8768-0

I. ①计… II. ①牛… III. ①电子计算机—英语—高等职业教育—教材 IV. ①H31

中国版本图书馆 CIP 数据核字(2014)第 180751 号

“十二五”职业教育国家规划教材

计算机英语

JISUANJI YINGYU

出版发行 教育科学出版社

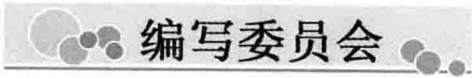
社 址 北京·朝阳区安慧北里安园甲 9 号
邮 编 100101
传 真 010-64891796

市场部电话 010-64989009
编辑部电话 010-64989394
网 址 <http://www.esph.com.cn>

经 销 各地新华书店
制 作 北京广联信达文化发展有限公司
印 刷 保定市中华美凯印刷有限公司
开 本 184 毫米×260 毫米 16 开
印 张 14.5
字 数 260 千

版 次 2014 年 8 月第 1 版
印 次 2014 年 8 月第 1 次印刷
定 价 33.00 元

如有印装质量问题, 请到所购图书销售部门联系调换。



编写委员会

主 编	牛长清			
审 校	肖 山	梁德厚		
副主编	肖 山	何湘君	钱 毅	石乐波
成 员	范美英	贾 雪	周军艳	侯志荣
	刘力维	杜 刚	杨立超	



前言

本教材是“十二五”职业教育国家规划教材。教材突破了传统的教材模式,综合考虑了高职高专学生的特点,把计算机专业知识的传授和英语技能的培养有机地结合起来。

本教材由多年从事高职教育教学第一线的教师、专家,在充分了解把握高职学生学习基础、程度、习惯、特点、思维方式、心智水平的情况下编写而成。本教材以单元为单位,共设计 10 个单元,内容包括现代计算机的发展与应用、计算机硬件、操作系统、计算机常用应用软件、程序设计、计算机网络、计算机安全、多媒体技术、电子商务、微时代。内容由浅入深,由易到难、循序渐进、图文并茂,理论与实际操作相结合。通过学习本教材,旨在使学生掌握有关计算机专业方面的基本词汇、基本表达方法、英译汉的翻译技巧和较系统的英文计算机知识,提高学生阅读计算机方面的简易文章和简易手册等的能力,为学生未来的职业发展打下良好的基础。

本教材体例如下:每个单元由 Section A Warming up, Section B Reading (Passage 1 & Passage 2), Section C Reading Skills, Section D English—Chinese Translation Skills 和 Section E Tips More 组成。

本教材充分考虑高职学生公共基础段英语学习和中职初步专业英语学习的情况与高职职业行业英语的衔接,在中、高职教学过渡中夯实基础英语语言,提升初步专业英语基本知识与阅读翻译能力。

本教材由牛长清担任主编并统筹安排各项工作。

牛长清编写了第一单元、各单元的 Section C、Section D 部分内容和第四单元的部分内容,并对全书进行了统稿工作。

审校:肖山对各单元的主题与编写内容进行了审校及修定工作;梁德厚对编写提纲、目录等进行了审核。

肖山编写了提纲、目录、总词汇表等内容,何湘君编写了第二单元,钱毅编写了第七单元和第九单元,石乐波编写了各单元的 Section D 的部分内容。

范美英编写了第五单元和第十单元,贾雪编写了第八单元,周军艳编写了第六单元,侯志荣编写了各单元的 Section C,刘力维、杜刚编写了第三单元,杨立超编写了第四单元的 Passage 1 和 Passage 2,部分练习题及 Tips More 的内容。

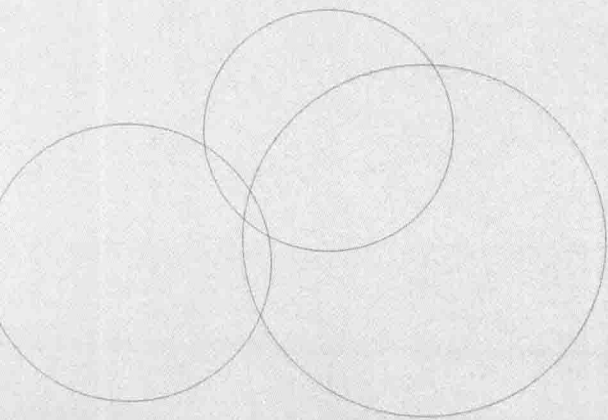
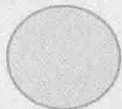
由于时间急迫和编者水平所限,书中错误在所难免,敬请广大读者批评指正。

编 者



目 录 ● ● ●

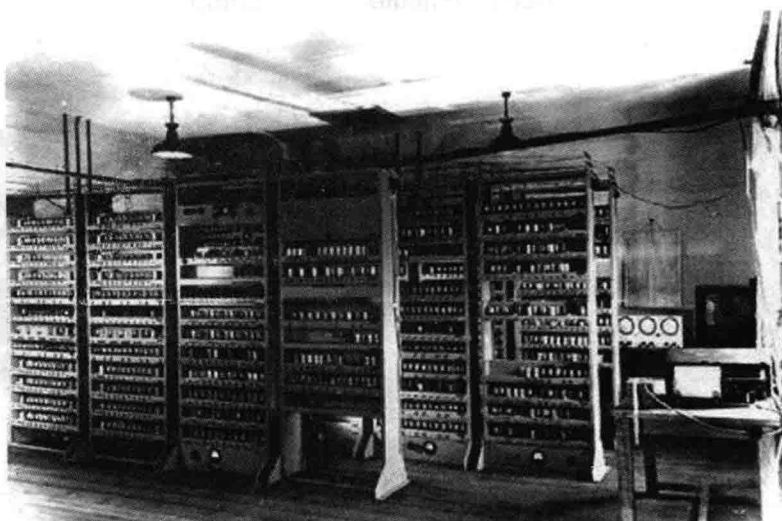
Module 1	The Innovation of the Computers	1
Module 2	Hardwares of the Modern Computers	24
Module 3	Operating System	43
Module 4	The Application Software of the Computer	63
Module 5	Programming	81
Module 6	Computers Network	100
Module 7	Computer Security	121
Module 8	Multi-media Technology	140
Module 9	E-commerce	157
Module 10	Micro-era	176
Vocabulary	196



Module

1

The Innovation of the Computers



Module Objectives:

In this Module, you will learn

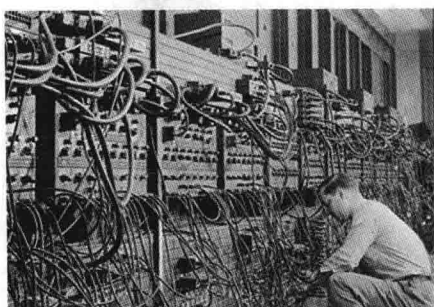
1. some words and phrases about computers.
2. to develop your reading comprehending ability on computer.
3. to improve your reading skills: Reading for the Topic Sentence.
4. Translation Skills: (1) Selection of Words. (2) Extension of the Meaning of the Words.

Section A

Warming up

Task 1 Discuss development of the computers, then match the following words and phrases with the pictures.

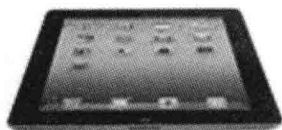
desktop tablet computer
electronic computer laptop



1. _____



2. _____



3. _____



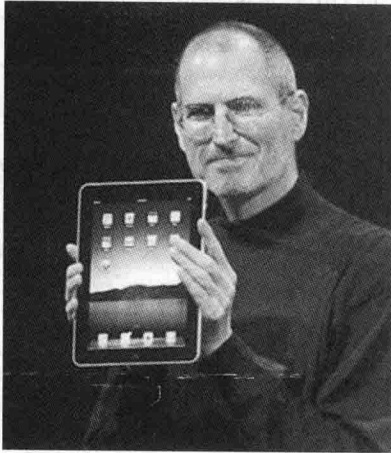
4. _____

Task 2 Discuss and guess who they are about the following photos? And put the name under the right picture.

Bill Gates

Warren Buffet

Steve Jobs



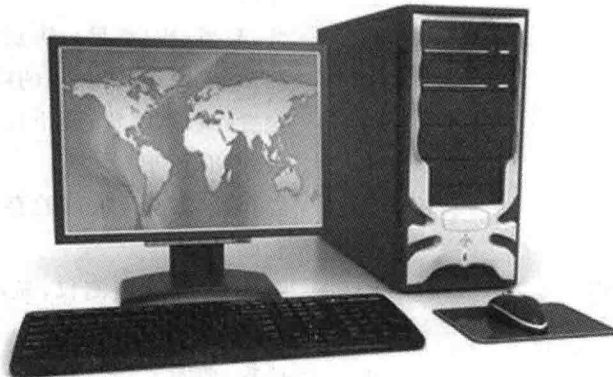
1. _____

2. _____

Section B

Reading

Passage 1 The Applications of Modern Computers





New Words and Expressions

application [ˌæplɪˈkeɪʃən]	<i>n.</i>	适用, 运用; 申请, 申请表, 申请书
intelligent [ɪnˈtelɪdʒənt]	<i>adj.</i>	聪明的; 理解力强的; 有智力的; [计] 智能的
household [ˈhaʊshəʊld]	<i>n.</i>	(集合词) 全家人, 家眷, 家属, 家里人; 家庭
electronic [ɪˌlekˈtrɒnɪk]	<i>adj.</i>	家庭的; 家常的, 普通的; 家喻户晓的
circuit [ˈsɜːkɪt]	<i>adj.</i>	电子的; 电子操纵的
upgrading [ˈʌpgreɪdɪŋ]	<i>n.</i>	电路, 线路; 环形道; [电] 电流
	<i>vt.</i>	巡回, 周游
	<i>v.</i>	提升 (upgrade 的现在分词); 使 (机器、计算机系统等) 升级; 提高 (设施、服务等) 档次
microwave [ˈmaɪkrə(ʊ)weɪv]	<i>n.</i>	微波; 微波炉
oven [ˈʌvən]	<i>vt.</i>	用微波炉加热 (或烹饪)
refrigerator [rɪˈfrɪdʒəreɪtə(r)]	<i>n.</i>	烤箱, 烤炉, 灶
audio-visual [ˌɔːdiəʊˈvɪʒʊəl]	<i>n.</i>	冰箱; 冷藏库; 制冰机, 冷冻机
automation [ˌɔːtəˈmeɪʃən]	<i>adj.</i>	视听的; 视听教学的
printer [ˈprɪntər]	<i>n.</i>	自动化 (技术), 自动操作
photocopier [ˈfəʊtəˌkɒpiə]	<i>n.</i>	打印机; 印刷机; 印刷厂、商; 印刷业人员, 印花工
attendance [əˈtendəns]	<i>n.</i>	复印机, 影印机
decoding [diːˈkəʊdɪŋ]	<i>n.</i>	出席, 参加; 出席率; 出席者, 出席人数
	<i>n.</i>	译码, 解码
	<i>v.</i>	译 (码), 解 (码) (decode 的现在分词); 分析及译解电子信号
commercial [kəˈmɜːʃəl]	<i>adj.</i>	商业的; 贸易的; 营利的; 靠广告收入的
disk [dɪsk]	<i>n.</i>	(电台或电视播放的) 商业广告
scale [skeɪl]	<i>n.</i>	磁盘
	<i>n.</i>	秤; 规模; 比例 (尺); 级别; 鱼鳞
slot [slɒt]	<i>vt.</i>	测量; 攀登; 刮去……的鳞片
	<i>n.</i>	位置; 狭槽, 水沟; 硬币投币口
storage [ˈstɔːrɪdʒ]	<i>vt.</i>	跟踪; 开槽于
monitor [ˈmɒnɪtə(r)]	<i>n.</i>	贮存器, 蓄电 (瓶); 贮存; 贮藏; 储藏处, 仓库
	<i>n.</i>	[计] 显示器; 监测仪; 显示屏, 屏幕; 监控人员, 班长
	<i>vt.</i>	监控, 监听; 监督, 监视

insurance [in'ʃʊərəns]	n.	保险, 保险业; 保险费
measurement ['meʒəmənt]	n.	量度; 尺寸
process ['prəuses]	n.	过程; 工序; 工艺流程
	vt.	加工; 处理
	adj.	经过特殊加工(或处理)的
integration [ɪntri'greɪʃən]	n.	结合; 整合; 一体化; (不同种族、宗教信仰等人的)混合
metallurgy [me'tælədʒɪ]	n.	冶金, 冶金学, 冶金术
instrumentation [ɪnstrumen'teɪʃən]	n.	使用仪器, 装设仪器; 乐器法; 乐曲研究; 手段
enhance [ɪn'hɑ:ns]	vt.	提高, 增加; 加强
strengthening ['streŋθnɪŋ]	n.	加固
	v.	加强, 巩固(strengthen 的现在分词)
function ['fʌŋkʃən]	n.	功能, 作用; 应变变量, 函数
	vi.	有或起作用; 行使职责
data ['deɪtə, 'dɑ:tə]	n.	资料, 材料; [计算机]数据, 资料; datum 的复数
processing ['prəusesɪŋ]	n.	(数据)处理; 整理; 配置; 工艺(生产方法)设计
diagnosis [ɪdaɪəg'nəʊsɪs]	n.	诊断; 诊断结论; 判断; 结论
outstanding [aʊt'stændɪŋ]	adj.	杰出的; 显著的; 突出的; 未完成的
installing [ɪn'stɔ:lɪŋ]	v.	安装(install 的现在分词); 安顿; 安置
wireless ['waɪələs]	adj.	无线的, 无线电传送的
	n.	无线电, 无线电系统; 无线电接收机或发射机
access ['ækses]	n.	入口, 出口; 接近, 进入; 增长
	vt.	接近, 进入; 使用, 接近, 获取
concentration [kɒnsən'treɪʃən]	n.	集中; 专心; 关注; 浓度
display [drɪ'spleɪ]	vi.	(计算机屏幕上)显示
	vt.	陈列; 展开
	n.	展览, 陈列品, 展览品; 显示器
dynamic [daɪ'næmɪk]	adj.	动态的; 动力的; 充满活力的, 精力充沛的
	n.	动态; 动力; 动力学; 活力
aerospace ['eəəspeɪs]	n.	航空与航太空; 宇宙空间; 航空航天学/工业
	adj.	宇宙空间、航行的
defense [drɪ'fens]	n.	(美国)国防部, 防卫, 防卫物

military ['militəri]	<i>adj.</i>	军事的;军用的
	<i>n.</i>	军人;军队;武装力量
sophisticated [sə'fistiketɪd]	<i>adj.</i>	复杂的;精致的;富有经验的;深奥微妙的
weapon ['wepən]	<i>n.</i>	武器,兵器
	<i>vi.</i>	武装,提供武器
navigation [ˌnævɪ'geɪʃən]	<i>n.</i>	航行(学);航海(术);海上交通
so far		目前
instead of		而不是
VCR		录像机 (Video Cassette Recorder)
IC card		IC 卡刷卡机
PLC		可编程逻辑控制器 (Programmable Logic Controller); 公共有限公司 (Public Limited Company)
SMS		存储管理服务; Short Message Service 手机短信服务
all sorts of		各种各样
as long as		只要;如果;既然;由于

Pre-reading Question

Do you know what kinds of fields are modern computers applied?

So far, the modern computer **applications** are:

1. Intelligent household appliances

All kinds of household appliances generally use intelligent control instead of traditional **electronic circuit** control, **upgrading**, improving the grade. Such as washing machine, air conditioning, television, **VCR**, **microwave oven**, **refrigerators**, electric cooker and various **audio-visual** equipment, etc. .

2. Office **automation** equipment

Such as **printers**, **photocopiers**, fax machines, drawing machine, **attendance**, phone and general-purpose computer keyboard in **decoding**, **disk** drives, etc. .

3. Business marketing equipment

The electronic **scale**, register, bar code reader, **IC card slot**, taxi meter and **storage** safety **monitoring** system, market security system, air conditioning system, frozen **insurance** system have been widely used in commercial marketing system.

4. Industrial automation control

Industrial automation control is the earliest one-chip computer control of one of the areas. Such as, in all sorts of **measurement** and control system, **process** control, mechanical-electrical **integration**, **PLC**, also in chemical industry, building, **metallurgy** and other industrial areas.

5. Intelligent instrumentation

Using intelligent instrumentation greatly **enhance** the grade of the instrument, **strengthening** the **function**. Such as **data processing** and storage, faults **diagnosis**, networking set control etc. .

6. Smart communication products

The most **outstanding** is mobile phone, of course, **SMS** chip. There is now a product seeming is **installing** a what card, as long as the machine runs, **wireless** Internet **access** through this card. As long as there is the network place, monitor can be come true.

7. Automobile electronic products

Modern car **concentration** and **display** system, the **dynamic** monitoring control system, automatic driving system, communication system and running monitor (black), etc. .

8. Aerospace and defense military, sophisticated weapons, etc. , such as global positioning, intelligent navigation.



Notes

1. ...upgrading, improving the grade.升级换代, 提高档次。
2. ... attendance, phone and general-purpose computer keyboard in decoding, disk drives, etc.考勤机、电话, 以及通用计算机中的键盘译码、磁盘驱动等。
3. The electronic scale, register, bar code reader, IC card slot, taxi meter and storage safety monitoring system, market security system, air conditioning system, frozen insurance system have been widely used in commercial marketing system. 电子秤、收款机、条形码阅读器、IC卡刷卡机、出租车计价器, 以及仓储安全监测系统、商场保安系统、空气调节系统、冷冻保险系统已广泛应用于商业营销系统。
4. Such as, in all sorts of measurement and control system, process control, mechanical-electrical integration, PLC. 如各种测控系统、过程控制、机电一体化、PLC。

5. ...networking set control etc.联网集控等
6. There is now a product is seeming installing a what card, as long as the machine runs, Internet access through this card wireless. As long as there is the network place, can monitor. 现在有一种好像是装一张卡的产品, 只要机器运行, 就能通过这张卡无线上网。只要有网络的地方, 都可以监控。
7. Modern car concentration and display system, the dynamic monitoring control system, automatic driving system, communication system and running monitor (black), etc.. 现代汽车的集中显示系统、动力监测控制系统、自动驾驶系统、通信系统和运行监视器(黑匣子)等。
8. Aerospace and defense military, sophisticated weapons, etc., such as global positioning, intelligent navigation. 航空航天系统和国防军事、尖端武器等领域, 如全球定位、智能导航。

● Post-reading Tasks

1. Decide whether the followings are True(✓) or False(×).

- () (1) All kinds of household appliances generally use intelligent control as well as traditional electronic circuit control.
- () (2) Printers, photocopiers, fax machines, drawing machine, attendance, phone and general-purpose computer keyboard in decoding, disk drives, etc. are not office automation equipments.
- () (3) In commercial marketing system, the electronic scale, register, bar code reader, IC card slot, taxi meter and storage safety monitoring system, market security system, air conditioning system, frozen insurance system, etc. has been widely used.
- () (4) Industrial automation control is now the one-chip computer control of one of the areas.
- () (5) Using intelligent instrumentation greatly enhance the grade of the instrument, strengthening the function. Such as data processing and storage, faults diagnosis, networking set control etc..
- () (6) There is now a product seeming is installing a what card, as long as the machine runs, through this card wireless Internet access. As long as there is the network place, can monitor.

2. Match the following phrases.

- | | |
|-----------------------|-----------------------------------|
| () (1) 条形码阅读器 | a. upgrading, improving the grade |
| () (2) 磁盘驱动 | b. audio-visual equipment |
| () (3) 视听设备 | c. keyboard in decoding |
| () (4) 磁盘驱动 | d. networking set control |
| () (5) 键盘译码 | e. disk drives |
| () (6) 升级换代 | f. bar code reader |
| () (7) 数据处理和存储 | g. wireless Internet access |
| () (8) 单片机 | h. disk drives |
| () (9) 无线上网 | i. data processing and storage |
| () (10) 联网集控(网络设定控制) | j. one-chip computer |

3. Give the words or phrases according to the English explanations.

- (1) _____ improving the grade
- (2) _____ Video Cassette Recorder
- (3) _____ all kinds of, all sorts of
- (4) _____ be appeared, to take part in, presence
- (5) _____ fingerboard, keyset, a part of a computer
- (6) _____ managing, dealing with the material, information, records on computer
- (7) _____ keeping, store up, back up
- (8) _____ clever, bright, quick witted
- (9) _____ fix, build in
- (10) _____ show, the screen of computer

4. Choose the best item.

- (1) Such as washing machine, air conditioning, television, VCR, microwave oven, refrigerators, _____ and various _____ equipment, etc. .
 A. electric cook; audio-visual
 B. electric cooker; visual-audio
 C. electric cooker; audio-visual
- (2) Office automation equipment: such as printers, photocopiers, fax machines, drawing machine, attendance, phone and general-purpose computer keyboard in decoding, disk drives, etc. . What is the real meaning of printers in the sentence above?
 A. 印刷厂 B. 打印机, 印刷机 C. 印刷商, 印刷业人员、印花工

(3) In commercial marketing system has been widely used in the electronic scale, register, bar code reader, IC card slot, taxi meter and storage safety monitoring system, market security system, air conditioning system, frozen insurance system, etc.. What does the underline word “monitoring” mean here?

- A. Of watching something or somebody.
- B. The leader of a class.
- C. An instrument used to watch something or somebody.

(4) Using intelligent instrumentation greatly enhances the grade of the instrument, strengthening the function. Which of the followings does not include?

- A. Data processing and storage.
- B. Accelerating the time of the starting computer.
- C. Faults diagnosis and networking set control.

(5) Smart communication products. The most outstanding is mobile phone, of course, SMS chip. There is now a product seeming is installing a what card, as long as the machine runs, through this card wireless Internet access. What does the underline words “the machine” mean here? _____

- A. It means the washing machine.
- B. It means the computer.
- C. It means the mobile phone.

5. Translate the following phrases into Chinese.

(1) faults diagnosis

(2) network monitor

(3) automatic driving system

(4) running monitor (black)

(5) global positioning

(6) intelligent navigation

(7) mechanical-electrical integration

(8) smart communication products

(9) taxi meter

(10) the electronic scale