

全国教育硕士专业学位推荐教材

顾明远 总主编

英」语

教师用书

(第二版)

毛大威 主 编

许梅先

余静娴副主编

徐汝舟



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- 教育学原理
- 教育心理学
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主编简介

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本书是为在职攻读教育硕士专业学位研究生英语统编教材配套使用的教师用书,为使 用本教材的教师提供了课文中练习的参考答案与相关背景知识。

本书内容编排如下:每单元均以课文中练习的顺序编排,共分为三部分。

第一部分为课前准备(Prepare Yourself)的参考答案,包括"Do you know","How do you say it"及"Make up a sentence"三项。其中中英文词汇的译文只给了一个参考答案,教师可根据情况自行给出相关的其他参考答案,来扩大学生对这些词汇的认知。"Make up a sentence"中的句子成分是从课文中提取的,标准答案即为课文中的原句,如果学生造出的句子与原文不一样,但在文法与逻辑上都说得通,也应认可。

第二部分是该单元所有课文中出现或涉及的相关内容的背景知识,供教师在备课、讲课中参考。由于教师对课文中文化背景知识的关注点和兴趣点会各不相同,所以给出的补充材料不一定能满足每位教师的需要。有些内容尚需使用者自行查找。

第三部分是书中练习的参考答案。"Comprehension questions"的参考答案在其他教材中往往是不做的,因为答案可以因对问题理解的角度不同,而有所差异。我们之所以做了,仅仅是给教师一个可把握的"认知点"而已。给出的参考答案决非唯一。教师可以它为出发点去考查学生的回答。其他练习答案均按顺序给出,以便查找。实用写作部分除个别句子或段落改写练习外,未附答案。

编者



Unit 1 Literature	nswers to Exercises
Prepare Yourself	
Background Information & Additional Notes	Poit 9 Physics
Answers to Exercises	Separe Yourself
l Notes 65	3ackground Information & Additiona
Unit 2 Business	rswers to Exercises
Prepare Yourself ·····	
Background Information & Additional Notes	nit 10. Philosophy.
Answers to Exercises established as a second	Pepare Yourself
Unit 3 Travel	Present to Exercises
Prepare Yourself ·····	19
Background Information & Additional Notes	19
Answers to Exercises solution and the second	Background Information & Additiona
Unit 4 Biology	rswers to Exercises
Unit 4 Biology Prepare Yourself·····	
Background Information & Additional Notes	
Answers to Exercises solve I	Background Information & Additiona
Unit 5 Biography	8 swers to Exercises
Prepare Yourself	
Background Information & Additional Notes	35
Answers to Exercises establishment and the second s	75 epare Yourself Background Information & Additions
Unit 6 Education	
Prepare Yourself	
Background Information & Additional Notes	43
Answers to Exercises	Aspare Yourself

Unit 7 Music	5
Prepare Yourself····	
Background Information & Additional Notes	51
Answers to Exercises	53
Unit 8 Life	58
Prepare Yourself ····	58
Background Information & Additional Notes	
Answers to Exercises ····	60
Unit 9 Physics Prepare Vourself	repare Yourse
Prepare Yourself Notes Prepare Yourself Notes Prepare Yoursels Notes Prepare Yoursels Notes Note	in binuorgalos
Background Information & Additional Notes	rnswers to Exe
Answers to Exercises	
Unit 10 Philosophy Dans M. Marian & Additional Notes	repare Yourse
Prepare Yourself Background Information & Additional News.	nl bouorgaland In
Background Information & Additional Notes ····	Answers to Ex
Answers to Exercises	75
Unit 11 Education & Additional Notes	Prepare Yourse
Prepare Yourself	Blokground In
Background Information & Additional Notes	Answers to Ex
Answers to Exercises	81
30	
Unit 12 Environment Prepare Vourself.	Prepare Yourse
Prepare Yourself Prepare Yourself	10 Eackground In
Prepare Yourself Background Information & Additional Notes	Answers to Ex
Answers to Exercises	91
elf	Prepare Yours
Prepare Yourself Register See Additional Notes	100
Background Information & Additional Notes	Allswers to Ex
Answers to Exercises	100
Unit 14 Astrology	Prepare Yours
Prepare Yourself	108
29210159	108

Background Information & Additional Notes	108
Answers to Exercises ····	112
Unit 15 Mass Media	118
Prepare Yourself	118
Background Information & Additional Notes	118
Answers to Exercises	122
Unit 16 Virtual World	120
Prepare Yourself····	129
Background Information & Additional Notes	
Answers to Exercises ····	135
Unit 17 Law	140
Prepare Yourself	140
Background Information & Additional Notes	140
Answers to Exercises ····	142
Unit 18 Women	148
Prepare Yourself····	148
Background Information & Additional Notes	148
Answers to Exercises	155
Unit 19 Trade	162
Prepare Yourself····	162
Background Information & Additional Notes	162
Answers to Exercises	165
Unit 20 History	171
Prepare Yourself ····	1/1
Background Information & Additional Notes	171
Answers to Exercises	

(Unit 1)

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scientific discoveries and technological developments,

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since. Alien beings are also regarded as intelligent extraterrestrial beings, ercatures from other planet in space. Eyewitnesses reported a number of different types of alien creatures which vary in almost every imaginable way. Surprisingly, however, those reported aliens themselves are not so very different from human beings - most have two arms, two legs, and one head. For this reason some ufologists doubt their existence. They claim the

fiction, which has made human beings ponder on a better and more humane exploitation of their

Prepare Yourself

whatever the experts may say, close encounters of the third kind continue to be reported till this day. How should we look at this Swonk now od mment may east some light on us;

"Most folks know little about how vast our cosmos is or even how it is set up. We live on a rather

luminous gas balls called the Milky Way galaxy. Most of these : 新麗母远ge several light 劉克

apart, a distance which would take our Pioneer and Voyager space probes tens of thousands of thow do you say it?

populated that it is ludicrous to imagine that beings of other star systems would know about us

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to make the journey? This is not to say that there are not ETI who explore other star systems, but Make up a sentence

It took 100 years before the moon landings predicted by the French writer Jules Verne actually took place. 3. The first robot: A robot is an automatically operated machine that does mechanical routine

Revolution, when the steam engine was invented to replace human effort and increase productivity.

tasks on command, though it may not resemble human beings in appearance or perform functions De Background Information & Additional Notes Palinamid & Information & Additional Notes

1. Other speculations that have been proved accurate. As cultured animals, human beings have been using their imagination to invent new devices in the long history of the world. The last two hundred years saw a number of technological discoveries predicted in the books of science fiction writers. Apart from space travel, the moon landings, communications satellites, nuclear power, robots, cloning and mobile telephony mentioned in this article, some other scientific devices and developments, such as the submarine, the aqualung, the television, mechanical brains (computers in reality) appeared in books before they were physically created. The destruction of the world as a result of its own technological achievements has now become a favorite theme of science

fiction, which has made human beings ponder on a better and more humane exploitation of their scientific discoveries and technological developments.

- 2. Men's exploration of alien beings: Men have always been searching for intelligent beings like us in cosmos. Reporting of close encounters with alien beings has kept coming into our media ever since. Alien beings are also regarded as intelligent extraterrestrial beings, creatures from other planet in space. Eyewitnesses reported a number of different types of alien creatures which vary in almost every imaginable way. Surprisingly, however, those reported aliens themselves are not so very different from human beings - most have two arms, two legs, and one head. For this reason some ufologists doubt their existence. They claim that those visitors from outer space would not look so much like ourselves. They were actually the inhabitants of human minds. But whatever the experts may say, close encounters of the third kind continue to be reported till this day. How should we look at this issue? Larry Klaes's comment may cast some light on us: "Most folks know little about how vast our cosmos is or even how it is set up. We live on a rather small rock circling a small yellow star that is one of 400 billion in a huge collection of such luminous gas balls called the Milky Way galaxy. Most of these stars average several light years apart, a distance which would take our Pioneer and Voyager space probes tens of thousands of years to reach even the nearest stars. In other words, we live in a galaxy that is so large and so populated that it is ludicrous to imagine that beings of other star systems would know about us unless they were very nearby on a cosmic scale. And what would we have to offer these beings who can cross interstellar distances, assuming such advanced intelligences exist and would want to make the journey? This is not to say that there are not ETI who explore other star systems, but many scientists find it doubtful that they are here in the numbers that the public reports every day, if there are even any ETI here at all! "
- 3. The first robot: A robot is an automatically operated machine that does mechanical, routine tasks on command, though it may not resemble human beings in appearance or perform functions in a humanlike manner. Elementary robot mechanisms can be traced back to the Industrial Revolution, when the steam engine was invented to replace human effort and increase productivity.

 Developments in microelectronics and computer technology since the late 1960s brought about owgreat advances in robotics. Sid gool and no service of the production of the produc

hundred years saw a number of tetnemqoleveb sitodor ni strave rojam adt era gniwollof adT on writers. Apart from space travel, the moon landings, communications satellities, nuclear power,

robots, cloning an tnemqoleveloped Point of Robotic Development and History Timeline of Robotic Development and Indiana.

Czechoslovakian playwright Karel Capek introduces the word "robot" in the play blrow and R.U.R.—Rossum's Universal Robots. The word comes from the Czech robota, which amais to means tedious labor. and won sad standard laboration in the play blrow and standard laboration in the play

- The first programmable paint-spraying mechanism is designed by Americans Willard and Harold Roselund for the DeVilbiss Company.
 - 1942 Isaac Asimov publishes Runaround, in which he defines the Three Laws of Robotics.
- for controlling machines, using magnetic recording; J. Presper Eckert and John Mauchly build the ENIAC at the University of Pennsylvania—the first electronic computer; At MIT, Whirlwind, the first digital general purpose computer, solves its first problem.
- Norbert Wiener, a professor at MIT, publishes Cybernetics or Control and Communication in the Animal, a book that describes the concept of communication and control in addon la relectronic, mechanical, and biological systems.
- In France, Raymond Goertz designs the first teleoperated articulated arm for the Atomic Energy Commission. The design is based entirely on mechanical coupling between the master and slave arms (using steel cables and pulleys). Derivatives of this design are still verbot essen in places where handling of small nuclear samples is required. This is generally regarded as the major milestone in force feedback technology.
- 1954 George Devol designs the first programmable robot and coins the term "Universal Automation", planting the seed for the name of his future company Unimation.
 - Marvin Minsky and John McCarthy establish the Artificial Intelligence Laboratory at MIT.
- Unimation is purchased by Condec Corporation and the development of Unimate Robot Systems begins. American Machine and Foundry, later known as AMF Corporation, markets the first cylindrical robot, called the Versatran, designed by Harry Johnson and qulavab o Veljko Milenkovic. Tailal saudo American Tailal regardlegad signal 1881
- 1962 General Motors purchases the first industrial robot from Unimation and installs it on a
 - 1963 John McCarthy heads up the new Artificial Intelligence Laboratory at Stanford University.
 9801
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 - Artificial intelligence research laboratories are opened at MIT, Stanford Research Institute (SRI), Stanford University, and the University of Edinburgh.
 - 1964 C&D Robotics founded.
- Tud 1965 | Carnegie Mellon University establishes the Robotics Institute. Undo A UMO Apple
- Homogeneous transformations applied to robot kinematics this remains the foundation of robotics theory today. Now, Rob Younge 1995 Intuitive Surgical formed by Fred Moll, Rob Younge.
- 1967 Japan imports the Versatran robot from AMF (the first robot imported into Japan).
- 1968 Kawasaki licenses hydraulic robot design from Unimation and starts production in Japan.
- 10 1968 SRI builds Shakey, a mobile robot with vision capability, controlled by a computer the

- 1938 The first programmable paint-spraying mechanism is design, moor a fo exigns Willard
 - 1970 Professor Victor Scheinman of Stanford University designs the Standard Arm. Today, 201000 its kinematic configuration remains known as the "Standard Arm". A 201011 CAPPER STANDARD CONTRACTOR OF THE PROPERTY OF THE PRO
- 901 1973 of Cincinnati Milacron releases the T3, the first commercially available minicomputerand the controlled industrial robot (designed by Richard Hohn). See an illocation to the
- professor Victor Scheinman, the developer of the Stanford Arm, forms Vicarm Inc. to market a version of the arm for industrial applications. The new arm is controlled by a minicomputer.
- no 1976 Robotic arms are used on Viking 1 and 2 space probes. Vicarm Inc. incorporates a ni longoo microcomputer into the Vicarm design disclosed tall along a Annual Antini
- ASEA, a European robot company, offers two sizes of electric powered industrial robots.
- Energy Commission. The design is based and mrasiV seasonaruq noitaminUet/1971 the
- Using technology from Vicarm, Unimation develops the PUMA (Programmable Universal Machine for Assembly). The PUMA can still be found in many research labs today.
 - 1978 Brooks Automation founded.been force feedb.behnuor and as the major milestone in force feedb.behnuor founded.
- Incided the IBM market the SCARA (selective compliant articulated robot arm) and the developed at Yamanashi University in Japan.
- Marvin Minsky and John McCarthy establish the Artificia.behnuol xango 1891v at
 - 1981 CRS Robotics Corp. founded.
- 10d 1982 a Fanuc of Japan and General Motors form joint venture in GM Fanuc to market robots in Motors form Joint Venture and Founday, Japan Morth America. American Machine and Founday, Japan Motors form Joint Venture in GM Fanuc to market robots in
- markets the first cylindrical robot, called the Ve.bebnuol ygolonday the first cylindrical robot, called the Ve.
- Joseph Engelberger starts Transition Robotics, later renamed Helpmates, to develop a no stalla service robots. Unit of the first industrial robot from Unit stoder Starts and St
- of the line of the second of t
 - 1988 Staubli Group purchases Unimation from Westinghouse.
- 1964 Artificial intelligence research laboratories an behnuol noitoM retugnood 1880 rch
 - 1989 Barrett Technology founded. U and the U. Stanford University, and the U. Sendondord University and U. Sendondord University
 - 1993 Sensable Technologies founded.
- 1994 CMU Robotics Institute's Dante II, a six-legged walking robot, explores the Mt. Spurr noitebrary volcano in Alaska to sample volcanic gases, a another robotic supposed to the Mt. Spurr
 - 1995 Intuitive Surgical formed by Fred Moll, Rob Younge and John Freud to design and market (more surgical robotic systems. Founding technology based on the work at SRI, IBM and MIT.
- med 1997 mNASA's Mars Path finder mission captures the eyes and imagination of the world as Path and reluginfinder lands on Mars and the sojourner Rover Robot sends back images of its travels on

the distant planet.

1997	Honda showcases the P3, the 8th prototype in a humanoid design project started	
spihino	1986.	
2000	Honda showcases Asimo, the next generation of its series of humanoid robots.	
2000	Sony unveils humanoid robots, dubbed Sony Dream Robots (SDR), at Robodex.	
2001	Sony releases the second generation of its Aibo robot dog.	
2001	Built by MD Robotics of Canada, the Space Station Remote Manipulator System	
	(SSRMS) is successfully launched into orbit and begins operations to complete assembly	
	of International Space Station.	

- 4. First communications satellite: A communications satellite provides radio, telephone, and television communication by transmitting signals it receives while orbiting the earth. The first satellite communications experiment, called Project SCORE, was made by USA, in which they launched a satellite on Dec. 18, 1958. One of the best known early communications satellites was Echo 1 which, launched on Aug. 12, 1960, was a balloon made of plastic coated with a thin layer of aluminum. Other well-known early communications satellites included Telstar (1962), Syncom 2 (1963), Syncom 3 (1964), etc., and the first commercial communications satellite, Intelsat 1, was launched on April 6, 1965.
- 5. Information age: A coming new age in which information dominates social life is occuring and the collection, organization and transmission of information are essential for social and economic progresses. In the information age, information technology, such as computers, telecommunications, the Internet, etc., is booming and widely applied in almost all aspects of social life. Information literacy is a very important quality of successful people. People with imagination and creative ideas play an important role in the society. This is what is emphasied in the article What's the Big Idea?

6. Some well-known science fiction writers and their works

Name	Works
volous people with no respect vomisA sassI	Foundation series (Hugo, 1966); including Foundation's Edge (1983); A Memoir; "Gold" (1992)
ts. allower, robot, cloning, mobile telephony	Men Like Gods; The Time Machine; The Island of Dr. Moreau: The Invisible Man: The War of the

Answers to Exercises