

佳禾外语
JIAHEWAIYU

JIAHE ENGLISH

2008 最新版

余高峰 华燕 王蒙 / 主编

美国之音

VOA STANDARD ENGLISH

标准英语

科学与技术篇

国内英语等级考试 / 出国能力认证考试必备

- ★ 精心选材，原汁原味
 - ★ 题材广泛，译文准确
 - ★ 优化设计，拓展训练
 - ★ 开阔视野，强化听力
- 听美国之音，学地道美语

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大连理工大学出版社



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前言 Foreword

英语学习者都知道,听、说、读、写是英语学习的基本要素。其中的“听”则是学习英语当中最基础、最重要也是最困难的环节之一,同时它也最能体现出一个人的英语水平。目前在我国,英语学习已相当普及,从未学过英语的人屈指可数,可谓全民同学英语。然而,真正学好英语的人却为数不多,或者说相当多的人学习效果不甚理想,究其原因,主要是语言学习环境较差。我们知道,语言是思想交流的工具,其主要作用是沟通、交流,一旦达不到其作用,语言学习也随之失去了意义。为了帮助英语学习者攻克英语听力这道难关,本书编者精心挑选了最新 VOA 科技方面的新闻报道资料,供广大英语学习者巩固英语听力之用。

编者相信,如果能用心学习此书,掌握本书的所有内容,在今后收听 VOA、BBC 或使用英语交流时,定会收到意想不到的效果,使自己的听力水平跨上一个新的台阶。

本书在编写过程中得到刘学飞、王伟亮、刘强、周志风、杨辉、赵天飞等同志的大力支持,在此向他们表示最衷心的感谢!

由于编者水平有限,加之编写内容较新,如有不妥之处,敬请批评指正。

编者
2008 年 4 月

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Tests

Unit 1

Scientists, Space Enthusiasts Share Vision for Mars

Words & Expressions

enthusiast	<i>n.</i>	热心者
payload	<i>n.</i>	负载物
chapter	<i>n.</i>	(俱乐部、社团等的)支部;分会
exploratory base		探测基地
quest	<i>n.</i>	探索
allocate	<i>v.</i>	分配
petition	<i>n.</i>	请愿;申请
Martian arctic		火星极地
ingredient	<i>n.</i>	成份
simulate	<i>v.</i>	模拟
thermal propulsion		热能推进

Exercises

I Answer the following questions according to what you have heard from the report.

1. Who is Elon Musk?
2. What is the Mars Society?
3. What is the Mars Society urging the president and Congress to do?

II Decide whether the following statements are true or false. If they are false, please correct them according to what you have heard.

- () 1. President Bush has committed the United States to returning humans to the moon by 2012.
- () 2. The latest NASA mission, the Phoenix Lander, was launched August 14, and it will analyze water ice in the Martian arctic.
- () 3. According to Fuk Li, the manager for the Mars exploration program at NASA's Jet Propulsion Laboratory, we are still in the early stages of discovery on Mars.
- () 4. 22-year-old Emily Colvin is studying for a career in aerospace at the Georgia Institute of Technology.

Notes:



Unit 2

Why Do So Few Women Reach Top Ranks in Science?

Words & Expressions

bastion	<i>n.</i>	城堡
sex discrimination		性别歧视
gender difference		性别差异
disparity	<i>n.</i>	差别; 不同
endow with		授予; 赋予
prestigious	<i>a.</i>	威望很高的
seminar	<i>n.</i>	研讨会
vervet	<i>n.</i>	黑长尾猴
unintentional biases		无意识的偏见
tenure	<i>n.</i>	任期; 占有权

Exercises

I Fill in the blanks with the information you have heard from the report.

1. Many women have _____ to the top ranks in science and engineering, but many _____—especially in the _____ sciences and engineering—have remained _____ male bastions.
2. The report found that women were well-represented as _____ in many fields of science and engineering, but were _____ likely to _____ to _____ faculty jobs at top universities.
3. Richard Haier has been doing brain _____ of men and women as they _____ different tasks, and identified

_____ differences in the _____ the brain works.

4. Women have done much better in medicine and the _____ sciences. And in one _____ field, _____ three quarters of the _____ are now women: veterinary medicine.

II Decide whether the following statements are true or false. If they are false, please correct them according to what you have heard.

- () 1. The Nobel science prizes were announced this week, and as is often the case, there were a few women among the winners.
- () 2. Some researchers think gender differences might not explain why fewer women are advancing in science and engineering.
- () 3. Elizabeth Spelke, the Harvard researcher, says the differences between males and females should distract from the impact of cultural factors.
- () 4. Donna Shalala, a former cabinet secretary under President Clinton disagrees that expectations of what women should do is keeping them out of senior positions at top research institutions.

Notes:



Unit 3

Astronomers Seek Ways to Divert "Killer Asteroids" that Could Threaten Earth

Words & Expressions

asteroid	<i>n.</i>	小行星
deflect	<i>v.</i>	使偏斜
stumble on		偶然发现
geosynchronous satellite		地球同步人造卫星
rendezvous	<i>n.</i>	集结之地; 会合点
astrobiology	<i>n.</i>	天体生物学
propulsion	<i>n.</i>	推动
generic	<i>a.</i>	一般的; 普通的
probability	<i>n.</i>	可能性; 概率
esoteric	<i>a.</i>	奥秘的; 神秘的

Exercises

I Fill in the blanks with the information you have heard from the report.

1. An asteroid striking Earth is more than _____ a theoretical _____ or, for that matter, the _____ of a Bruce Willis _____.
2. But even without a systematic _____ of the sky, astronomers have _____ stumbled on _____ heading _____ way.
3. So what happens if, one day, astronomers _____ that they've discovered a _____ asteroid heading _____ for _____

Earth?

4. Still, when an asteroid is _____ as _____ down on us, it will be important to _____ as soon as possible.

II Decide whether the following statements are true or false. If they are false, please correct them according to what you have heard.

- () 1. The U.S. space agency, NASA, says it does have the money to track the asteroids and comets that could potentially hit the Earth.
- () 2. A century ago, an asteroid flattened 2,000 square kilometers of a densely-populated area in Siberia, a relatively local event.
- () 3. Steven Chesley of the Jet Propulsion Laboratory in California says that Apophis would hit the Earth in 2029.
- () 4. NASA has identified about 130 asteroids that might hit the Earth. But Chesley says there are an estimated 2,000 yet to be discovered.

Note:



Unit 4

X Prize Foundation Sponsors Competition to Develop Fuel Efficient Automobile

Words & Expressions

sponsor	v.	赞助
finite	a.	有限的
dwindle	v.	减少
appeal	n.	吸引力
with one's eye on		关注
wheel-mounted disk		轮装圆盘
hybrid	a.	混合的
entrepreneur	n.	企业家
criteria	n.	标准
luxury	n.	奢侈

Exercises

I Fill in the blanks with the information you have heard from the report.

1. The competition aims at _____ the development of vehicles that _____ far _____ gasoline than those _____ on the road.
2. The X Prize Foundation is best known for the _____ competition to _____ a human-piloted space craft that would _____ the earth's atmosphere and return _____ within a two-week period.
3. Poulsen's team plans to _____ a light-weight passenger ve-

hicle already on the _____ and _____ it with the hybrid _____ for the competition.

4. Beyond the monetary award that _____ with the X Prize and the _____ he may gain from sales of his vehicle, Bricklin says the _____ represents something _____ important.

II Decide whether the following statements are true or false. If they are false, please correct them according to what you have heard.

- () 1. According to Donald Foley, backers of the competition want to move the industry away from vehicles that rely on petroleum-based fuels.
- () 2. The Automotive X Prize is focused on developing a vehicle that can get 100 miles per gallon, or 34 kilometers per liter.
- () 3. The vehicles chosen for the final competition will compete in a cross country race in 2009 and 2010.
- () 4. Already more than 15 teams from seven nations have signed up to compete.

Notes:



Unit 5

French, German Scientists Win Nobel Physics Prize

Words & Expressions

electrical resistance	电阻
convert <i>v.</i>	转换
binary bits of data	二进制比特数据
retrieve <i>v.</i>	重新获得
microscopically <i>ad.</i>	微小地
miniaturization <i>n.</i>	微型化
sensitivity <i>n.</i>	敏感性
coveted phone call	渴望的电话
venerable <i>a.</i>	庄严的
auditorium <i>n.</i>	礼堂

Exercises

I Fill in the blanks with the information you have heard from the report.

- The two researchers _____ discovered the physical effect, and both _____ its practical importance as a means to cause _____ magnetic changes to bring about _____ differences in electrical resistance.
- With this _____, which was made in _____, one found a system where the magnetoresistance _____ with 60 per cent.
- Miniaturization of hard disks _____ packing more _____ into ever-smaller areas _____ weaker and weaker

resistance.

4. It is a Nobel _____ that winners receive the coveted phone call from Stockholm just _____ before the announcement is _____ to the assembled _____.

II Decide whether the following statements are true or false. If they are false, please correct them according to what you have heard.

- () 1. Albert Fert and Peter Gruenberg are honored with this year's Nobel Prize in Chemistry.
- () 2. The first readout head based on Fert and Gruenberg's discovery was introduced in 1988.
- () 3. Nobel week continues with the announcement of the chemistry prize on Wednesday and literature on Thursday.
- () 4. In accordance with Alfred Nobel's 1879 will establishing the prizes in his name, the Nobel Peace Prize will be announced in Oslo, Norway on Friday.

