

<<汽车专业英语>>

图书基本信息

书名：<<汽车专业英语>>

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## 前言

中投顾问产业研究中心发布的《2010-2015年中国汽车行业投资分析及前景预测报告》中指出,“经过近30年的努力,特别是过去10多年国家汽车生产和消费政策的调整,我国汽车产业呈现爆发式增长,产销规模在1998-2008年的10年间保持了20%以上的年均增幅。

目前我国已跃居世界第二大汽车消费国和第三大汽车生产国。

2008年,受国际金融危机的影响,我国汽车产销量分别为934.5万辆和938.1万辆,增幅低于2007年。

而2009年以来,汽车市场回暖,从2009年3月起我国汽车产销已连续9个月超过百万辆水平,创历史记录。

2009年1-11月,我国汽车产销分别为1226.58万辆和1223.04万辆,同比增长41.59%和42.39%。

中国汽车工业总体发展趋好。

”在未来的十几年内,既是我国汽车工业稳健发展时期,又是汽车市场群雄逐鹿竞争日益激烈的时期。

既有国内大小汽车厂家的市场争夺,又有进口车辆的强大威胁。

在这种情况下,我国急需汽车理论知识扎实、实践技能熟练的专业人才。

而汽车专业英语是汽车服务技术人员尤其高级技术人员不可或缺的必备知识。

在这样的背景下,我们编写了这本《汽车专业英语》。

在编写过程中,我们紧紧联系当前汽车技术发展的实际状况,按照高职高专职业技术教育的特点和培养方案,本着“适用、管用、够用”的原则,将知识与实践紧密结合。

本书共五章,各章包括课文、生词、注释、练习等环节。

前四章以汽车构造为主线,涵盖发动机、底盘和电气设备等内容,同时侧重于最新汽车技术的内容。

所选的阅读材料以汽车维修、故障诊断和维护保养设备的内容为主。

第五章为汽车营销英语,主题涉及。

营销基本原理和销售实务。

本书所选素材均选自英文原文,练习环节题型多样,既有对课文的巩固,又有相关知识的扩展。

本书整体上图文并茂,将汽车英语的识读、理解和记忆融会贯通,便于读者学习和掌握。

本书除了可以作为高职高专汽车相关专业的教材之外,也可供汽车从业人员阅读使用。

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### 内容概要

本书按照高职高专职业技术教育的特点和培养方案,本着“适用、管用、够用”的原则,联系当前汽车技术发展的实际情况,结合知识与实践,精心编写而成。

本书共五章。

第1章为汽车发展简史。

第2章以发动机为主,共十个单元,包含发动机的工作原理和所有构成,重点突出电控发动机、电控共轨柴油直喷技术。

第3章以汽车底盘为主,共十个单元,除了底盘的基本构造,还包含最新的自动变速器、GPS定位导航系统、ABS制动防抱死系统、ESP电控车身稳定系统等。

第4章以汽车电器为主,共六个单元。

除了电器基本系统,还包括空调和汽车安全气囊系统。

第5章为汽车营销英语,包含营销基本原理和销售实务。

本书体例包括课文、生词、注释、练习和阅读材料等环节。

阅读材料主要涉及汽车维修、故障诊断和维护保养设备。

练习环节题型多样,既有对课文的巩固,又有相关知识的拓展。

图文并茂,将汽车英语的识读、理解、记忆融会贯通,便于学习和掌握,这是本书的另一个特色。

本书可用作高职高专汽车相关专业的教材,也适合汽车从业人员阅读和参考。

## 书籍目录

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	Reading Material	Unit 3 The Power Mechanism of the Engine	Words and Expressions	Notes	Exercises
	Reading Material	Unit 4 Valves and Valve Train	Words and Expressions	Notes	Exercises
	Reading Material	Unit 5 Engine Fuel System	Words and Expressions	Notes	Exercises
	Reading Material	Unit 6 Engine Cooling System	Words and Expressions	Notes	Exercises
	Reading Material	Unit 7 Engine Lubrication System	Words and Expressions	Notes	Exercises
	Reading Material	Unit 8 Electronic Fuel Injection System	Words and Expressions	Notes	Exercises
	Reading Material	Unit 9 Emission Control System	Words and Expressions	Notes	Exercises
	Reading Material	Unit 10 Intake and Exhaust Systems	Words and Expressions	Notes	Exercises
Chapter 3	Chassis	Unit 1 Power Train	Words and Expressions	Notes	Exercises
	Reading Material	Unit 2 Clutch	Words and Expressions	Notes	Exercises
	Reading Material	Unit 3 Manual Transmission	Words and Expressions	Notes	Exercises
	Reading Material	Unit 4 Automatic Transmission	Words and Expressions	Notes	Exercises
	Reading Material	Unit 5 The Steering System	Words and Expressions	Notes	Exercises
	Reading Material	Unit 6 Automobile Braking System	Words and Expressions	Notes	Exercises
	Reading Material	Unit 7 Antilock Brake System	Words and Expressions	Notes	Exercises
	Reading Material	Unit 8 CPS Navigation System	Words and Expressions	Notes	Exercises
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	Reading Material	Unit 10 Electronic Stability Program	Words and Expressions	Notes	Exercises
Chapter 4	Electrical Equipment	Unit 1 Charging System	Words and Expressions	Notes	Exercises
	Reading Material	Unit 2 Starting System	Words and Expressions	Notes	Exercises
	Reading Material	Unit 3 Ignition System Basic	Words and Expressions	Notes	Exercises
	Reading Material	Unit 4 Electronic Ignition System	Words and Expressions	Notes	Exercises
	Reading Material	Unit 5 Air Bag System:	Words and Expressions	Notes	Exercises
	Reading Material	Unit 6 Air Conditioning	Words and Expressions	Notes	Exercises
Chapter 5	Car Selling	Unit 1 Some Basic Marketing Theory	Unit 2 How to Be a Good Car	参考文献	

## 章节摘录

**Future Auto Development** PTC has conducted a joint study with the center for automotive research, which looks at product development in the auto industry. Although the final study won't be available until later this year, major conclusions are already known. For example, Auto companies all over the world take roughly the same amount of time to develop a new platform, about 24 months. Innovation will increasingly come from suppliers. Math-based design, analysis, and CAD will become even more important. DFMA, along with design for durability and reliability, will remain the most important design criteria. With electronics success depends on engineers and IT departments having a company-wide view and closer coordination on system components. Engineers will need to know the entire life cycle of a product, from planning to after market support and disposal.

**An Example of Complexity** Taking a look at the design and development of a wiring harness will demonstrate the complexity of such life-cycle approach across electronic, mechanical and software design.

**Systems definition:** This includes translating vehicle electrical specifications into required connections in each system; breaking down the system logically by function; creating block diagrams of designs and selecting the right components and connectors.

**Topology development:** This includes translating a conceptual model into an implemental topology, component placement in vehicle, partitioning the vehicle for the harness, and placing interconnects based on physical constraints and logical requirements.

**Physical harness development:** This includes translating topology into real-world connections, determining physical properties of the harness such as splices, wires, connectors, and other attached parts, performing electronic 3D routing, and developing 2D harness manufacturing drawings from 3D routings.

**Schematic release:** This is usually the final step and includes the merger of system design and harness documentation into a practical format for field use, developing engineering system views for troubleshooting, and providing service drawings.

As these steps show, even harness design requires interplay between electrical and mechanical engineering and consideration of the harness entire life cycle.

## <<汽车专业英语>>

### 编辑推荐

《汽车专业英语》是汽车检测与维修、汽车技术服务与营销、汽车电子技术、汽车制造与装配和汽车整形技术等汽车专业的主干课程。

全书以汽车构造为主线，穿插汽车保养、维修和故障诊断的内容，同时专门增加了汽车营销英语。

该书内容丰富、图文并茂、体例新颖，选材来源于网络和最新的原版技术手册。

《汽车专业英语》实用性强，难易适中、前瞻性强，学后可以阅读英文原版手册以及汽车专业各种英文资料。

该书既适宜作高职高专汽车相关专业教材，也可供汽车爱好者自学使用。

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