<<汽车专业英语>>

图书基本信息

书名：<<汽车专业英语>>

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内容概要

随着汽车工业的国际化，社会对于汽车从业人员的要求也就越来越高，对于既懂专业又懂英语的人才更是需求若渴，为此我们编写了本教材，以适应全国对更高层次的汽车专业技能人才的需求。

本教材在编写中以汽车构造为主线，主要介绍了汽车各个系统的基本构造及工作原理，同时选编了现代汽车技术方面的专业内容，如汽车电脑、安全气囊和智能车辆等。

本书内容多采用外文原著，较好地反映了汽车专业英语自身特色，既介绍了汽车专业的传统知识，也涉及了汽车新技术、新结构，以及一些先进的设备和仪器的使用。

全书共12个单元，每个单元由课文、词汇、短语和句子注释、练习组成，既增强了本书的自学性，又增强了阅读性；文中配有必要的插图，功口深了读者的理解；每单元都有一段对话，有利于提高学习者的英语会话能力。

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书籍目录

章节摘录

POV Valve The purpose of the positive crankcase ventilation （PCV） system is to take the vaporsproduced in the crankcase during the normal combustion process， and redirecting theminto the air/fuel intake system to be burned during combustion. These vapors dilute the air/fuel mixture so they have to be carefully controlled and metered in order not to affect theperformance of the engine. This is the job of the positive crankcase ventilation （PCV）valve. At idle， when the air/fuel mixture is very critical， just a little of the vapors areallowed in to the intake system. At high speed when the mixture is less critical and thepressures in the engine are greater, more of the vapors are allowed in to the intakesystem. When the valve or the system is clogged， vapors will back up into the air filterhousing or at worst， the excess pressure will push past seals and create engine oil leaks. （7）If the wrong valve is used or the system has air leaks， the engine will idle rough， or atworst， engine oil will be sucked out of the engine. EGR Valve The purpose of the exhaust gas recirculation （EGR） valve is to meter a small amountof exhaust gas into the intake system， which dilutes the air/fuel mixture so as to lower thecombustion chamber temperature. Excessive combustion chamber temperature createsoxides of nitrogen, which is a major pollutant. While the EGR valve is the most effectivemethod of controlling oxides of nitrogen， in its very design it adversely affects engine performance. The engine was not designed to run on exhaust gas. For this reason the amount of exhaust entering the intake system has to be carefully monitored and controlled. This is accomplished through a series of electrical and vacuum switches and the vehicle computer. （8） Since EGR action reduces performance by diluting the air /fuel mixture， the system does not allow EGR action when the engine is cold or when the engine needs full power.

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