

# 《机械英语》

## 图书基本信息

书名：《机械英语》

13位ISBN编号：9787040266955

10位ISBN编号：7040266954

出版时间：2010-4

出版社：高等教育出版社

页数：220

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# 《机械英语》

## 前言

近年来，我国的高等职业教育在国家政策的大力扶持下，得到了长足的发展，人才培养模式更加符合我国现阶段经济发展的需求，课程设置更加重视实用知识的传授和实践能力的培养。教育主管部门与时俱进，对高职高专的英语教学适时做出调整，提出“实用为主，工学结合”的指导原则，在日常的英语教学中加大了专业英语教学的比重，凸显了专业英语教学的重要性。《机械英语》正是为了满足广大高职高专院校开设专业英语课程的要求，遵循教育部高等教育司颁发的《高职高专教育英语课程教学基本要求》的指导原则而进行编写的。为了做好这项工作，我们除了遵循教育部规定的一般原则外，还特别注意到了如下几点：

- 一、专业特色明显。本教材所选的材料与一般的机械科普读物不同，不是对于专业知识的简单罗列，而是对专业知识的梳理介绍，目的是提高学生的专业英语阅读能力，使其能够在今后的工作中自主地吸收国际同行的有益经验和知识。

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## 内容概要

《全国行业英语系列统编教材:机械英语》内容简介：教育主管部门与时俱进，对高职高专的英语教学适时做出调整，提出“实用为主，工学结合”的指导原则，在日常的英语教学中加大了专业英语教学的比重，凸显了专业英语教学的重要性。

《机械英语》正是为了满足广大高职高专院校开设专业英语课程的要求，遵循教育部高等教育司颁发的《高职高专教育英语课程教学基本要求》的指导原则而进行编写的。

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UNIT 2 Tolerance and Fits Reading and Translating Section A Limits , Tolerances and Fits Section B Interchangeability and Measurement Listening and Speaking Writing : Introduction of a Company

UNIT 3 Engineering Materials Reading and Translating Section A Metals and Their Properties Section B Nonmetal Materials Listening and Speaking Writing : Order for Products

UNIT 4 Machine Elements Reading and Translating Section A Transmissions Section B Shafts and Accessories Listening and Speaking Writing : Email for Request

UNIT 5 Hydraulic Drive Reading and Translating Section A Pumps and Actuators Section B Valves and Basic Hydraulic Circuits Listening and Speaking Writing : Advertisement

UNIT 6 Machine Tools Reading and Translating Section A Machine Tools Section B In Machine Shop Listening and Speaking Writing : Letters for Machinery Exportation

UNIT 7 Forming Reading and Translating Section A Hot Working Section B Cold Working Listening and Speaking Writing : Complaint Letter

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UNIT 10 CAD and CAM Reading and Translating Section A Computer-aided Design ( CAD ) Section B Computer-aided Manufacturing ( CAM ) Listening and Speaking Writing : Dealing with Problems

课文参考译文 Keys for Exercises Bibliography

## 章节摘录

In the Periodic Table of Elements by a Russian chemist , Dmitri Mendeleev , about half of the elements are metals. Metals are usually divided into two groups : ferrous and nonferrous. In contrast to ferrous , nonferrous metals do not contain any iron. Copper , aluminum , chromium are some examples. From the standpoint of commerce , however , an absolutely pure metal has never appealed to engineers , such as pure iron , which is too soft for machine parts. And of all these metallic elements , only a few are suitable for the engineering purpose. Steel and cast iron are the most common metals in use. An alloy is a mixture of one or more elements in a metallic matrix. For example , steels are alloys of iron and carbon by adding one or more small amounts of the following elements : nickel , chromium , manganese , silicon , tungsten and so on. Carbon is the most important element in steel. It determines the mechanical properties by the adding percentage of carbon. In this connection , low-carbon steels ( less than 0.30% ) , with better forming properties. Are usually used for low-strength products. And medium-carbon steels ( 0.30%-0.60% ) can meet the requirement of forgings. strength and ductility for mechanical parts or machines.

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