

<<机械英语>>

图书基本信息

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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

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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In the Periodic Table of Elements by a Russian chemist , Dmitri Mendeleev , about half of the elements are metals. Metals are usually divided in 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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