

《模具专业英语》

图书基本信息

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前言

在快速发展的模具设计与制造领域，大量的原版英文技术资料 and 国外最新的技术信息与动态，对于专业技术的学习和提高有着举足轻重的作用。目前，我国很多职业院校的模具专业都将“模具专业英语”作为一门专业知识拓展课程。本书是以提高学生对专业英语的阅读、理解能力，扩展和深化学生对模具设计和制造领域关键技术的认知，为学生职业生涯的可持续发展搭建平台为目的，本着先进、实用、简明、系统的组织原则，从高职教育以实践为主的实际出发，结合多年的专业英语教学实践来编写的。本书的内容均选自英、美国家专业教材及专业刊物的原文，共8个单元，27篇课文，27篇阅读材料。全书内容涉及机械基础（材料及热处理、传统加工）、冷冲压工艺及模具、塑料模具、模具成形机械、模具制造技术（数控加工、特种加工）、CAD / CAM、模具寿命和失效的相关内容以及模具常用术语，基本涵盖了模具设计与制造专业所需的技术知识。本书可以作为高职、高专模具设计与制造专业的英语教材，也可以作为工程技术人员的自学参考书。在编写过程中，本书力求体现下列特点：

- 1) 面向广大高职、高专教育对象，重点在于扩充学生的专业英语词汇量，提高读者对科技英语的阅读、理解能力。
- 2) 以培养模具设计与制造专业能力为主线来选取文章，单元模块式的结构组织便于教师的灵活选用。
- 3) 在内容上注重选材的实用性，在形式上注重图文并茂，正文中生词均斜体加粗，疑难句有注释，便于读者阅读。
- 4) 文章均为原版英文文献，英语表达地道，力求兼顾知识的基础性与专业性，同时反映专业发展的新趋势。
- 5) 在精讲课文内设有引导阅读的小问题，便于教师组织教学。

本书的参考学时为30~60个学时，教师可根据教学计划对内容作适当增减。

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内容概要

《模具专业英语》是本着先进、实用、简明、系统的组织原则，从职业教育的实际出发，结合多年的专业英语教学实践编写的。《模具专业英语》内容均选自英、美国家的专业教材及专业刊物的原文，内容涉及机械基础、冷冲压工艺及模具、塑料模具、模具成形机械、模具制造技术、CAD / CAM等，基本涵盖了模具设计与制造专业所需的技术知识。《模具专业英语》在内容上注重选材的实用性，英语表达地道，力求兼顾知识的基础性和专业性，可以作为高职、高专模具设计与制造专业的英语教材，也可以作为工程技术人员的参考书。

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章节摘录

Irrespective of the machine tool or technique used to manufacture the various parts of the mold , the final responsibility for the finishing of the individual parts and for fitting them together lies with the bench fitter. The various stages in the bench fitting involved in the manufacture of a simple mold are listed as follows : 1. Finishing the impression When the mold plates are received from the machine tool section , the impression form on both sides is in the rough machined state. Cutter marks , burrs , etc. , are very apparent on the surface. The bench fitter's first job is to produce a cavity and core free of machine marks and to the shape and dimensions specified on the mold detail drawing. 2. Aligning cavity and core This operation is to align the two parts with respect to each other so that the molding produced will have the correct wall section. This is achieved by using packing pieces between the cavity and core. The two mold plates are clamped together and returned to the milling or boring machine to have guide holes bored through both plates. When this operation is complete , the clamps are removed , the mold plates separated and the guide pillars and guide bushes fitted. The two mold plates are again brought together and checked to ensure that the core is in alignment with the cavity. 3. Bedding down This is the process of "marrying" the two opposing mold halves together to prevent the plastic material escaping between the two surfaces when the material is injected into the impression.

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