

<<模具专业英语>>

图书基本信息

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前言

本书是根据教育部“关于加强高职高专教育教材建设的若干意见”和高职高专模具专业教学大纲编写而成，从教学实际出发，力求专业培养的宽口径，具有良好的通用性、实用性和针对性。遵照高等职业教育的应用特性，教材内容力求通俗易懂，便于教学和自学。

本书共分7部分，分别讲述了模具材料、冲压模、塑料模、模具CAD/CAM、模具设备、模具的电加工、计算机数控等方面的专业英语知识。

本书内容全面、精炼，选材新颖，难度适中，且每单元后都附有新单词和短语、重点和难点句子注释、练习题等内容。

书后还附有常用的模具设计、制造方面的专业英语词汇和短语，供学生在学习和以后的工作中查询。

本书在编排上力求突出实用性，具有以下几个特点：

1. 每个单元的内容在编排上重点突出。

各单元文章后有与之配套的阅读材料，可扩充相关领域的知识，满足英文功底较好的读者的需求。

2. 阅读内容贴切实用，选取的单词专业性强，便于学生日后应用。

3. 图文并茂，专业词汇用图形示意，便于学生理解和学习。

本书由沈言锦和周钢担任主编，阳娣莎、沈延秀、周健担任副主编，参加编写的老师还有张坤、刘海渔、刘海雄、林章辉、孟少明、陈进武、陈艳辉、陈建山、刘银平等，全书由湘潭大学苏旭平教授担任主审。

由于编者水平有限，书中难免有不足之处，恳请读者批评指正。

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本书可作为高职高专模具设计与制造专业以及本科材料成型与控制专业的教材,也可以作为模具技术培训教材,还可以供从事模具设计、制造的技术人员和模具销售的外贸人员使用。

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章节摘录

In metal forming, the geometry of the workpiece is established entirely or partially by the geometry of the die. In contrast to machining processes, significantly greater forces are necessary in forming. Due to the complexity of the parts, forming is often not carried out in a single operation. Depending on the geometry of the part, production is carried out in several operational steps via one or several production processes such as forming or blanking. One operation can also include several processes simultaneously. During the design phase, the necessary manufacturing methods as well as the sequence and number of production steps are established in a processing plan. In this plan, the availability of machines, the planned production volumes of the part and other boundary conditions are taken into account. The aim is to minimize the number of dies to be used while keeping up a high level of operational reliability. The parts are greatly simplified right from their design stage by close collaboration between the part design and production departments in order to enable several forming and related blanking processes to be carried out in one forming station. Obviously, the more operations which are integrated into a single die, the more complex the structure of the die becomes. The consequences are higher costs, a decrease in output and a lower reliability.

Single Station Die The die that only one process is carried out in one press stroke is called single station die. Its structure is simple, so it can be easily manufactured. It is applicable to small batch production. Figure 2-6 shows the structure of a single station die.

Progressive Die To speed production, piercing and blanking operations are often combined together in one tool. In progressive dies, also known as progressive blanking dies, sheet metal parts are blanked in several stages; generally speaking no actual forming operation takes place. The sheet metal is fed in the form of metal strips. Using an appropriate arrangement of the blanks within the available width of the sheet metal, an optimal material usage is ensured. The workpiece remains fixed to the strip skeleton up until the last operation. Figure 2-7 shows a simple progressive die for making washers. In the operation, the punch moves downwards to punch by piercing punch and to blank by blanking punch.

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编辑推荐

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