

<<数控技术专业英语>>

图书基本信息

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作者：李桂云 主编

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## <<数控技术专业英语>>

### 内容概要

《数控技术专业英语》是新世纪高职高专教材编审委员会组编的数控技术应用类课程规划教材之一。

本教材旨在使学生熟悉数控加工工艺、数控编程、数控机床操作与维护中常见的英文，为学生今后阅读相关的说明书及资料，掌握数控编程和操作及进一步学习打下良好的英语基础；本教材综合应用部分的内容能够拓宽学生的视野，有利于学生就业。

本教材在编写过程中力求突出以下特点： 1、课文选取紧密结合专业课教学内容，篇幅适度，难易适中。

2、精度部分由课文、词汇、注释、练习题等部分组成，每篇精读课文都有参考译文，练习题配有参考答案。

3、泛读内容与精读课文一一对应，方便有兴趣学生进一步学习。

4、根据课文内容，选择恰当的图片，使教材图文并茂，有助于学生更直观地理解教学内容。

5、附录中列出了常用地G代码、M代码、缩略语和数控加工常用词汇，方便学生查找与使用。

本教材共分为四各单元，分别使数控加工工艺、数控编程、数控机床操作与维护以及综合应用。

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## 章节摘录

Cermets ( from the words ceramic and metal ) were first used in the early 1950s and consist of ceramic particles in a metallic matrix. They were introduced in the 1960s and are black or hot-pressed ceramics.

Typical cermets consist of 70% aluminium oxide and 30% titanium carbide; other cermets contain molybdenum carbide, niobium carbide, and tantalum carbide. Although they have chemical stability and resistance to built-up-edge formation, the brittleness and high cost of cermets have been a limitation to their wider use.

Further refinements of these tools have resulted in improved strength, toughness, and reliability. Their performance is somewhere between that of ceramics and carbides and has been particularly suitable for light roughing cuts and high-speed finishing cuts, chipbreaker features are important for cermets inserts. Although they can be coated, the benefits of coated cermets are somewhat controversial, as the improvement in wear resistance appears to be marginal. There are three basic types of metal cutting tools : singlepoint tools, multipoint tools and abrasives<sup>TM</sup>. A singlepoint metal cutting tool has a single cutting edge and is used for turning, boring, shaping and planing. The most common machine tools have two or more cutting edges such as drills, reamers and milling cutters. The cutting edge is that part of the tool where cutting is actually done. Grinding wheels are an example of abrasive cutting tools. Each grinding wheel has a lot of abrasive grains, which act as very cutting tools.

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