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<<模具与数控专业英语>>

图书基本信息

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作者：黄义俊

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内容概要

本书介绍了与模具设计及与数控技术专业有关的英语知识。
《模具与数控专业英语》共分为模具设计与数控技术两部分，共有12个单元、28篇课文、28篇阅读材料，主要内容包括：模具材料与热处理、冲压模具设计、塑料模具设计、压力铸造模具设计、冲压模具与注射模具零件、冲压与塑压成形设备、数控／计算机数控加工技术的应用、数控加工设备、数控机床的控制系统、数控编程、数控加工中心的主要技术规格和特种加工设备等。

全书由课文、阅读材料、单词与词组、难句注释、课文译文等部分组成。

本书适合作为高职高专院校模具专业与数控专业的英语教材或阅读材料，也可作为从事模具设计与制造、数控技术方面工作的工程技术人员的自学参考用书。

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章节摘录

The debugging process begins after the part program has been successfully loaded. First, the setup person locks the machine and runs the program using only the output from the MCU. This is done to check if the controller recognizes all the codes in the program. If this test is successful, the program can be run with the machine Z-axis locked. This will guard against any possible collisions between the tool and the work holding or part itself. Next is the so-called "dry" run with the part removed. During this test the setup person slows down the rapid feeds and speeds up the actual feeds. These tests will indicate whether the program runs and if there are any extraordinary moves which could cause a collision of the work and/or work holding with the cutting tool. To verify if the program produces a proper part, a blank must be loaded and cut. I~ the production blanks are made of costly material, some shops may first cut a test part using aluminum, wax, wood and so on. This saves on material, cutting tools, and prove-out time. The actual cutting test is run in single-block mode（versus automatic mode）. This is done to give the setup person time to see the effects of each command and aids in spotting a wrong move. The program is further optimized by eliminating any unnecessary moves. After the part is completed, it is measured to determine if the drawing, operation sheets, and programmer specifications have been satisfied. Adjustments are made. If necessary, another part is made and checked by the quality control department. If everything is found to be satisfactory, the part goes into production. ……

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