

<<机电一体化及数控专业英语>>

图书基本信息

书名：<<机电一体化及数控专业英语>>

13位ISBN编号：9787115256799

10位ISBN编号：7115256799

出版时间：2011-9

出版时间：人民邮电出版社

作者：杨宏 编

页数：192

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

<<机电一体化及数控专业英语>>

内容概要

本书是针对高职院校机电一体化和数控专业而编写的专业英语教材，内容包括基础模块、机电一体化模块、数控技术模块及应用写作模块。

书中的每个教学单元分为课文和阅读材料两个部分，其中，课文部分中的Text

1侧重于基础知识，Text 2侧重于实践与实验知识，Text 3、Text

4侧重于教学知识的拓展。

每个教学单元都配有针对性的练习，书末附有参考译文及参考答案。

本书在材料选取上十分注重体现教材内容的广泛性、灵活性和实用性，且在编写上把易于教学、讲究实效放在首位。

本书适合于高等职业院校机械设计与制造、机电一体化、数控技术与模具技术等专业作为教材使用，同时也适合成人高校学生以及相关专业人员自学使用。

<<机电一体化及数控专业英语>>

书籍目录

Unit 1 Basic Knowledge(I)

Text 1 Lathe and Turning

Text 2 Vitrified Bond & Vitriified Grinding Wheel

Text 3 Integrated Circuit

Text 4 Heat Treatment of Steel

Exercises to the text

Reading Material

1-1 Cutting Processes and Tools

1-2 Properties & Selection of Materials

1-3 Computers

1-4 Tapping Tools and Tapping

Exercises to the material

Practical Skill

Unit 2 Basic Knowledge()

Text 1 Circuit

Text 2 The Construction and Components of a Typical Electric

Motor

Text 3 DC Motors

Text 4 Transformers

Exercises to the text

Reading Material

2-1 Circuit Diagram

2-2 Electric Motors

2-3 Stepper Motor

2-4 Electrical Circuit of Electronic Photo Flash

Exercises to the material

Practical Skill

Unit 3 CAD and General Knowledge of Drafting

Text 1 Computer-Aided Design

Text 2 Engineering Graphics

Text 3 Solid Modeling

Text 4 Dimension Tolerances of Parts

Exercises to the text

Reading Material

3-1 The Importance of Sketches

3-2 Form of Three-view Drawings

3-3 The User Interface of AutoCAD 2004 System

3-4 To draw the teeth of a Spur Gear

Exercises to the material

Practical Skill

Unit 4 Mechanical Design and Machine Parts

Text 1 What Is “ Mechanical Design ” ?

<<机电一体化及数控专业英语>>

Text 2 Spur Gears

Text 3 Ball Bearings

Text 4 Introduction to HY electric multi-way valve

Exercises to the text

Reading Material

4-1 Introduction to Machine Design and Elements

4-2 V Belts and Couplings

4-3 Keys and Pins

4-4 The Mechanical Design Process

Exercises to the material

Practical Skill

Unit 5 Mechatronics()

Text 1 What Is “ Mechatronics ” ?

Text 2 A Brief Introduction

Text 3 Digital Optical Encoder

Text 4 Touch Screens

Exercises to the text

Reading Material

5-1 Introduction to Sensors and Transducers

5-2 Resistive Tactile Sensor

5-3 Logic Gates

5-4 Resistive Tactile Sensor

Exercises to the material

Practical Skill

Unit 6 Mechatronics()

Text 1 Programmable Logic Controllers

Text 2 Temperature Control

Text 3 Open-Loop Control and Closed-Loop Control

Text 4 MCS-51 Memory Structure

Exercises to the text

Reading Material

6-1 PLC System Overview

6-2 Chips

6-3 Structure of Supervisory Control System

6-4 Optical Fibers and Fiber Optic Sensing

Exercises to the material

Practical Skill

Unit 7 Mechatronics()

Text 1 Robots

Text 2 List of Various Mechatronic Systems

Text 3 Bar Code Scanners

Text 4 Remote-reading Shaft-revolution Counter and Radio

Telemetry

Exercises to the text

<<机电一体化及数控专业英语>>

Reading Material

- 7-1 Levitation Principle of Maglev
- 7-2 List of Mechatronic Systems for Industrial Use
- 7-3 Monitoring System for a Machine Tool
- 7-4 Control Subsystem of a Robot

Exercises to the material

Practical Skill

Unit 8 CNC Machine and NC Programming()

- Text 1 CNC and CNC Machine Tools
- Text 2 Product Directions of Component Parts
- Text 3 Company Brief Introduction
- Text 4 Wire Electrical Discharge Machining

Exercises to the text

Reading Material

- 8-1 Principles of NC Machines
- 8-2 Preparatory Functions (G Codes)
- 8-3 On-line Inspection System
- 8-4 M Codes and M06 Code

Exercises to the material

Practical Skill

Unit 9 CNC Machine and NC Programming()

- Text 1 Common Types of CNC Machine Tools
- Text 2 Writing an NC Part Program
- Text 3 CNC Safety
- Text 4 Program and Machine Control Unit for CNC Machine

Exercises to the text

Reading Material

- 9-1 VMC & HMC
- 9-2 Automatic Tool Changer
- 9-3 Just-in-time Production
- 9-4 F Code and S Code

Exercises to the material

Practical Skill

Unit 10 CNC Machine and NC Programming()

- Text 1 CAD/CAM
- Text 2 Scope of CAD/CAM
- Text 3 Computer-integrated Manufacturing
- Text 4 What is A Flexible Manufacturing System?

Exercises to the text

Reading Material

- 10-1 CAD/CAM Software
- 10-2 Geometry vs. Toolpath
- 10-3 CAD/CAM Modules
- 10-4 FMS Applications

<<机电一体化及数控专业英语>>

Exercises to the material

Practical Skill

Unit 11 English for Job Applying

Text 1 Advertisement

Text 2 Cover Letters

Text 3 Resume

Text 4 Interview

Exercises to the text

Reading Material

11-1 Job Advertisements

11-2 Job Interview

11-3 Student ' s Academic Transcript

11-4 Electrical & Mechanical Installation Supervision

Exercises to the material

Practical Skill

参考译文及参考答案

参考文献

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>