

<<液压与气压传动>>

图书基本信息

书名：<<液压与气压传动>>

13位ISBN编号：9787111224495

10位ISBN编号：7111224493

出版时间：2008-1

出版时间：机械工业出版社

作者：陈淑梅

页数：373

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>

## <<液压与气压传动>>

### 内容概要

《液压与气压传动（英汉双语）》为高职高专机电类教材，全书包括液压传动与气压传动两部分。  
。主要内容包：液压与气压传动的基本知识，液压与气动元件的结构及工作原理，液压辅助元件，液压与气压基本回路，液压系统实例，液压传动系统设计计算方法及设计实例，液压CAD技术简介，液压伺服系统的工作原理及液压伺服系统实例；气源净化装置，气压传动系统实例，气动程序系统设计方法及设计实例，液压与气压传动系统的安装调试、故障分析及使用维护等内容。

《液压与气压传动（英汉双语）》着重基本概念和原理的阐述，注重理论知识的应用，突出应用能力和创新能力的培养。

## &lt;&lt;液压与气压传动&gt;&gt;

## 书籍目录

Prerace (序) Foreword (前言) Part One Hydraulic Transmission (液压传动) Chapter 1 Introduction to Hydraulic and Pneumatic Transmission (液压与气压传动概论) 1.1 Study Oil Hydraulic and Pneumatic Transmission (液压与气压传动的研究内容) 1.2 Operating Principles of Hydraulic Transmission (液压传动的工作原理) 1.3 Composition of Hydraulic Transmission System (液压传动系统的组成) 1.4 Features of Hydraulic and Pneumatic Transmission (液压与气压传动的特点) · 1.5 The Development History and Application of Hydraulic and Pneumatic Transmission (液压与气压传动发展及应用概况) Chapter 2 Fundamental Hydraulic Fluid Mechanics (液压流体力学基础) 2.1 Performances of the Hydraulic Oil (液压油的性质) 2.2 Hydrostatics (液体静力学) 2.3 Hydrodynamics (液体动力学) 2.4 Characteristics of Fluid Flow in Pipeline (管道中液流的特性) 2.5 Flow Rate and Pressure Features of Orifice (子L口及缝隙的流量压力特性) 2.6 Hydraulic Shock and Cavitation (液压冲击和气穴现象) Chapter 3 Hydraulic Pumps (液压泵) 3.1 Introduction (概述) 3.2 Piston Pumps (柱塞泵) 3.3 Vane Pumps (叶片泵) 3.4 Gear Pumps (齿轮泵) Chapter 4 Hydraulic Actuators (液压执行元件) 4.1 Hydraulic Motors (液压马达) 4.2 Hydraulic Cylinders (液压缸) Chapter 5 Hydraulic Control Valves (液压控制阀) 5.1 Introduction (概述) 5.2 Directional Control Valves (方向控制阀) 5.3 Pressure Operated Valves (压力控制阀) 5.4 Flow Control Valves (流量控制阀) 5.5 Manifold Valves and Cartridge Valves (叠加阀和插装阀) 5.6 Electro.hydraulic Servo Valves (电液伺服阀) 5.7 Electro.hydraulic Proportional Valves (电液比例阀) 5.8 Electro—hydraulic Digital Valves (电液数字阀) Chapter 6 Auxiliary Components for Hydraulic Systems (液压辅件) 6.1 Accumulators (蓄能器) 6.2 Filters (过滤器) 6.3 Reservoirs (油箱) 6.4 Piping / Tubing and Connectors (管件) 6.5 Seals and Sealing Devices (密封装置) Chapter 7 Basic Hydraulic Circuits (液压基本回路) 7.1 Pressure Control Circuit (压力控制回路) 7.2 Speed Control Circuits (速度控制回路) 7.3 Directional Control Circuits (方向控制回路) 7.4 Multi—actuator Circuits Contorl (多执行元件控制回路) Chapter 8 Examples of Hydraulic Systems (液压系统实例) 8.1 Hydraulic System of Power—slipway for Combined Machine Tools (组合机床动力滑台液压系统) 8.2 Hydraulic System of Plastic Injection Moulding Machines (塑料注射成型机液压系统) 8.3 Hydraulic System of YA32-200 Type Four—Column Universal Press Machine (YA32.200型四柱万能液压机液压系统) 8.4 Hydraulic System of Manipulators (机械手液压系统) Chapter 9 Design of Hydraulic Transmission Systems (液压系统的设计) 9.1 The Approach for Design of Hydraulic Systems (液压系统的设计步骤) 9.2 A Design Example of Hydraulic Systems (液压系统的设计计算实例) Part Two Pneumatic Transmission (气压传动) Chapter 10 Air Supply Devices and Pneumatic Components (气源装置与气动元件) 10.1 Air Supply Devices (气源装置) 10.2 Pneumatic Attachments (气动辅件) 10.3 Pneumatic Actuators (气动执行元件) 10.4 Pneumatic Regulating valves (气动控制阀) Chapter 11 Basic Pneumatic Circuits and Their Application (气动基本回路及其应用) Chapter 12 Examples of Pneumatic Transmission Systems (气压传动系统实例) 12.1 Pneumatic Transmission System of Pneumatic Manipulators (气动机械手气压传动系统) 12.2 Pneumatic Clamping System (气动夹紧系统) 12.3 Auto—Close Pneumatic System of Sliding Doors (拉门自动启闭气动系统) 12.4 Pneumatic Transmission System of Air—hydraulic Power-slipway (气液动力滑台气压传动系统) Appendix A Problems (课后练习) Appendix B Graph Symbols of Common Hydraulic and Pneumatic Components (常用液压与气动元件图形符号) Appendix C Commonly Used Terminology in Hydraulic and Pneumatic Systems (液压与气动系统中常用的专业术语) References (参考文献)

<<液压与气压传动>>

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>