<<液压与气压传动/普通高等学校机械>>

图书基本信息

书名：<<液压与气压传动/普通高等学校机械工程类专业双语系列教材>>

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前言

This textbook introduces some new concepts and methods aecording to the development of fluid power. It is intended for undergraduate students of mechanical design manufacturing and automation （including mechanical engineering and automation major） which announced by Chinas ministry of education in recent. It is written and compiled according to the requirement of bilingual education. There are 11 chapters in this book. Chapter 1 is a brief introduction to the subject of fluid power and the fluid power industry. Chapter 2 through chapter 7 cover the hydraulic components （including pump, motor, cylinder, direction control valve, pressure control valve, flow control valve, logic valve, proportional valve, servo valve and ancillary hydraulic components）, the emphasis is on understanding their construction and function. Chapters 8 through 10 cover basic hydraulic circuit, typical hydraulic system and the emphasis is on understanding their function and design. Chapter 11 covers the basic principles of pneumatics,pneumatic components and pneumatic circuits. After finishing each chapter, students are provided with key points, key terms and definitions, exercises and review questions. Pneumatic and hydraulic graphical symbols are attached at the end of this book as appendix I. This textbook is written and compiled by many experienced teachers from several universities and colleges.They are： Chen Kuisheng from Wuhan University of Science and Technology （chapter 1）；Ma Jian from Taiyuan University of Technology （chapter2, 6）；Huanghao from Wuhan University of Science and Technology, Zhu Jiangong from South West University of Science and Technology （chapter 3）, Rong Zhijun from Wuhan University of Science and Technology, Zhu Jiangong from South West University of Science and Technology （chapter 4）, Wan Huixiong and Yuanbin from Wuhan University of Technology （chapter 5）, Rong Zhijun from Wuhan University of Science and Technology （chapter 7）；Liu Shiping from North China Institute of Water Conservancy and Hydroelectric Power （chapter 8,9）； Huanghao from Wuhan University of Science and Technology （chapter 10）,Wu Hongmin from Wuhan University of Technology and Tian Yong from Henan University of Technology（chapter 11）.

内容概要

There are 11 chapters in this textbook;Introduction to fluid power, Hydraulicpumps and motors,Hydraulic cylinders,Ancillary hydraulic components, Directional control valves, pressure control valves, flow control valves and other hydraulic valves, basic hydraulic circuit, typical hydraulic systems and some examples,the design and calculation of hydraulic system,pneumatics. At the end of each chapter some exercises and notes are presented for practice and better understanding. Appendix I illustrates the pneumatic and hydraulic graphical symbols. This book can be used as textbook for teachers and students of mechanical engineering,and reference for engineers who major in fluid power,control engineering or automation.

书籍目录

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