

<<电气工程及其自动化专业英语>>

图书基本信息

书名：<<电气工程及其自动化专业英语>>

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## <<电气工程及其自动化专业英语>>

### 内容概要

华臻、张菁主编的《电气工程及其自动化专业英语》主要介绍了电气工程及其自动化专业英语的阅读、理解与翻译方法。

其内容涵盖电工基础、电子技术基础、计算机及微机理论、控制基础理论、电力电子技术、电机学、人工智能、电力系统、继电保护、智能电网等。

考虑到本学科新技术的发展，本书节选了有关专业文献与资料作为阅读材料。

全书共分13章，每章均包含英语原文、词汇注释、例句注释、阅读材料和专业英语翻译技巧5部分内容。

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《电气工程及其自动化专业英语》既可作为电气工程及其自动化、自动化等相关专业的专业英语教材，也可作为从事电气控制、自动化等相关专业工程技术人员学习专业英语的参考用书。

书籍目录

Chapter 1 Circuit Theory Fundamentals

- 1.1 Kirchhoff's Laws
- 1.2 Basic Analysis Methods
- 1.3 Three Phase Circuits

Reading Material: Circuit Design Software — OrCAD — PSpice A/D

Reading and Translation Skills

Chapter 2 Electronic Technology

- 2.1 Bipolar Junction Transistor
- 2.2 Edge-Triggered Latches: Flip-flop

Reading Material: Circuit Simulation Software — Multisim

Reading and Translation Skills

Chapter 3 Computer and PLC

- 3.1 Computer and Microprocessor
- 3.2 Programmable Logic Controller

Reading Material: Computer Network — Network Hardware

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Chapter 4 Automatic Control Theory

- 4.1 Automatic Control
- 4.2 Computer Control
- 4.3 Process Control

Reading Material: Distributed Control System

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Chapter 5 Power Electronic Technology

- 5.1 Trends in Power Electronics
- 5.2 Power Semiconductor Devices
- 5.3 DC-AC Converter

Reading Material: IGBT Devices

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Chapter 6 Electrical Machines

- 6.1 Generator
- 6.2 Electric Motor
- 6.3 Synchronous Machines

Reading Material: Next-Generation Motor Control

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Chapter 7 Measurement Technology and Instrument

- 7.1 Introduction
- 7.2 Thermocouples

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Chapter 8 Artificial Intelligence

- 8.1 Introduction to AI
- 8.2 Overview of AI Application Areas

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13.2 Smart Grid Implementation — Challenges, Issues, and

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Reading and Translation Skills

参考文献

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