

<<自动化与电子信息专业英语>>

图书基本信息

书名：<<自动化与电子信息专业英语>>

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## 前言

根据目前高等院校自动化、电气工程及其自动化及电子信息工程等专业有关课程教学大纲的要求，我们组织编写了本书。

本书共计7个部分48个单元。

各单元主要由课文、专业词汇、注释和参考译文几部分组成。

除第七部分外，课文均选自相关专业英文原版大学教材、专业文献。

第七部分亦源自海外实际材料。

课程内容覆盖相关电类专业从技术基础到专业的发展、理论和应用；文体涉及教材、论文、技术说明书及应用文等，以期让读者尽可能广泛地接触到各种与专业有关的资料。

绝大部分课程附有课外阅读，有助于读者提高独立阅读能力。

本书由武汉工业学院的几位教师编写。

他们在专业教学科研、对外交流、专业英语教学方面各有所长，有利于本书的编写。

杨植新担任主编，主持本书编写大纲的制订及全书统稿工作，并编写了第二部分的第7单元、第三部分、第四部分的第1~4单元和第6单元、第五部分的第4单元和第5单元及第七部分；周劲任副主编，编写了第一部分及第六部分；孙江波编写了第二部分的第1~6单元和第8、9单元；李素芬编写了第四部分的第5、7单元及第五部分的第1~3单元。

本书编写过程中，在收集资料时得到了周玉女士的热情帮助，谨表谢意。

本书提供配套的电子课件，可登录电子工业出版社的华信资源教育网w注册后免费下载。

鉴于作者水平有限，加之时间仓促，书中疏漏不妥之处在所难免，敬希专家及读者赐教指正。

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### 内容概要

本书主要针对自动化、电气控制和电子信息等专业的本科生阅读和翻译英文文献资料的需要而编写，选编的文献资料涵盖了电工、电子电路、电子电气设备器件、传感技术、微机原理、控制理论、计算机控制等从基础理论到实际运用的广泛内容。

所有文献均出自海外原文资料。

除了提供专业词汇和难句注释分析外，还为读者提供了所有课文的参考译文。

绝大多数课文后还提供了课外阅读材料。

除了教材、论文这些最常见的文体外，还有技术说明、产品使用及科技交流、宣传等多种文体，目的在于使读者能够多方面接触各种不同类型的英文资料。

所有这些编排都十分有利于读者深入学习理解原文，提高阅读和翻译能力。

本书不仅适合电类专业本科生及研究生使用，也适合广大相关工程专业的技术人员参考。

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An electrical device is represented by a circuit diagram or network constructed from series and parallel arrangements of two terminal elements. The analysis of the circuit diagram predicts the performance of the actual device. A two-terminal element in general form is shown in Figure I.1.1 : with a single device represented by the rectangular symbol and two perfectly conducting leads ending at connecting points A and B. Active elements are voltage or current sources : which are able to supply energy to the network. Resistors : inductors : and capacitors are passive elements which take energy from the sources and either convert it to another form or store it in an electric or magnetic field.

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