

<<电力专业英语>>

图书基本信息

书名：<<电力专业英语>>

13位ISBN编号：9787560949291

10位ISBN编号：7560949290

出版时间：2008-10

出版时间：华中科技大学出版社

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页数：150

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前言

本书是在编者多年教学实践的基础上，结合电力专业在校学生和广大专业技术人员实际工作的需要而编写的。

全书从电力专业的基础知识入手，内容涉及电力系统、发电厂、电力设备、继电保护以及新能源发电等，旨在帮助读者利用英语这一语言工具，阅读电力类英文技术文献和资料。

书中对每章课文中的大量生词和难句都给出了详细的注释，课后配有词汇和阅读理解练习，以及相关的补充阅读材料。

为适应在校学生学习的需要，本书对电力专业英语的特点、翻译时容易出错的语法问题、专业词汇的构词法、常用的数学符号和物理量的英语表达形式，以及常用专业词汇的英文缩写等都作了一些归纳，为进一步提高读者阅读的兴趣，书中还配置了大量的图片，版面设计更为新颖活泼。

在本书的编写过程中，得到许多同行的支持和热心帮助。

在此，对汪祥斌副教授、陈祎志高工、张晓春副教授、王涛老师等表示由衷的感谢。

限于编者的水平和经验，书中错误和不妥之处在所难免，敬请读者批评指正。

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内容概要

本书涉及电力行业的多个领域，包括电力系统、发电厂、电力设备、输配电系统、继电保护、新能源发电等。

全书共8章，分别为现代电力系统的一般特性、发电厂、变压器、输配电系统及输电线路、断路器、开关设备、继电保护设计和继电器、电力系统继电保护、可再生能源。

本书可作为高等院校电力专业的教学用书，也可用作电力企业工程技术人员学习专业英语的培训教材。

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章节摘录

The purpose of this introductory chapter is to provide a general description of electric power systems beginning with a historical sketch of their evolution. The basic characteristics and structure of modern power systems are then identified. The performance requirements of a properly designed power system and the various levels of controls used to meet these requirements are also described. The first complete electric power system (comprising a generator, cable, fuse, meter, and loads) was built by Thomas Edison: the historic Pearl Street Station in New York City which began operation in September 1882. This was a DC system consisting of a steam-engine-driven DC generator supplying power to 59 customers within an area roughly 1.5 km in radius. The load, which consisted entirely of incandescent lamps, was supplied at 110 V through an underground cable system. Within a few years similar systems were in operation in most large cities throughout the world. With the development of motors by Frank Sprague in 1884, motor loads were added to such systems. This was the beginning of what would develop into one of the largest industries in the world.

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