

<<土木工程专业英语>>

图书基本信息

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## <<土木工程专业英语>>

### 前言

土木工程是有着悠久历史的学科之一。近年来由于工程技术的进步和经济发展的需要，这门古老学科焕发出新的光彩，知识不断更新，技术日新月异。

在这种背景下，我们所编的《土木工程专业英语》阅读材料在涵盖专业基本知识的同时，还力求突出土木工程的近年发展成果及未来发展趋势。

本书的主要特点如下：（1）题材力求新颖。

《土木工程专业英语》共22个单元，以结构工程、道路桥梁、岩土工程以及工程管理等专业背景为线索，主要介绍了建筑材料、结构设计及分析、道路桥梁设计及施工、场地勘察、土力学及地基基础以及工程项目管理等方面内容。

题材均选自近年来出版的专业文献、书籍及网络上的相关知识内容，集文字、图表与图片于一体，注重激发学习者的兴趣和思考，使学习者在学习语言和专业基本知识的同时，了解土木工程领域的最新进展。

（2）难度层次递进。

每个单元由正文、阅读素材1和阅读素材2三个部分组成，其阅读难度分别选择为简单、中等和较难，形成难易不同的阅读层次。

每篇正文后配有课文注释和课后练习，注释简明扼要，练习则集语言训练与专业知识为一体。

（3）附有常用专业词汇。

专业词汇的掌握是阅读好专业文献的重要基础，词汇的掌握也是今后进一步学习、阅读和写作的基石，因此，本教材最后附有土木工程专业词汇，可供读者阅读及翻译专业文献时查阅使用。

本书由姜珂主编，魏健、靳慧霞担任副主编，参编人员还有吴萍、刘冰、宋岩等。

由于编者的专业知识水平所限，本书还有许多不尽合理的地方，希望广大同仁和读者给予批评指正！

在此也对编写过程中给予帮助的同事表示感谢！

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### 内容概要

本书是为高等学校土木工程类专业学生编写的专业英语阅读教材。

课文内容以结构工程、道路桥梁、岩土工程以及工程管理等专业背景为线索，主要介绍了建筑材料、结构设计及分析、道路桥梁设计及施工、场地勘察、土力学及地基基础以及工程项目管理等方面内容。

材料的选取在涵盖专业基本知识的同时，还突出近年来土木工程的新发展及新知识。

每个单元包括一篇正文和两篇阅读材料，阅读难度分别为简单、中等和较高三个层次，形成难易不同的阅读阶梯，以供不同读者根据需求在阅读时方便地选择；书后附有常用土木工程专业词汇，可供读者阅读及翻译专业文献时查阅使用。

本书适合作为高等学校土木工程类专业的专业英语阅读教材，也可作为设计、施工、管理等广大工程技术人员和研究生作为提高英语水平、丰富专业知识的阅读材料。

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章节摘录

Civil engineering is a professional engineering discipline, that deals with the design, construction and maintenance of the physical and naturally built environment, including works such as bridges, roads, canals, dams and buildings. Civil engineering is the oldest engineering discipline after military engineering, and it was defined to distinguish non-military engineering from military engineering. It is traditionally broken into several sub-disciplines including environmental engineering, geotechnical engineering, structural engineering, transportation engineering, municipal or urban engineering, water resources engineering, materials engineering, coastal engineering, surveying, and construction engineering. Civil engineering takes place on all levels: in the public sector from municipal through to federal levels, and in the private sector from individual homeowners through to international companies.

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