

<<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

专业英语是大学英语教学的一个重要组成部分，是促进学生将普通英语知识与专业知识有机结合的有效途径。

为了适应我国高等教育发展的新形势，深化教学改革，提高教学质量，满足土木工程类专业英语教学的需要，培养适应社会需求的土木工程的双语人才，我们特地编写了《土木工程专业英语》。

本书主要结合土建专业的特点，涉及工程力学、工程结构、建筑材料、路桥施工、结构抗震、环境工程、工程合同与项目管理等领域。

此外，本书也对科技英语的特点及一些主要阅读技巧进行了阐述，以便于学生较快地掌握科技英语的阅读技巧，提高科技英语的阅读能力。

本教材由16个单元（Units）组成，每个单元包括2篇课文（Texts）和一个科技英语阅读常识与技巧（Reading Skill），并配有生词（New Words）、词组（Expressions）、注释（Notes）及练习（Exercises）。

书后还附有总词汇索引。

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内容概要

《土木工程专业英语》主要结合土建专业的特点，涉及工程力学、工程结构、建筑材料、路桥施工、结构抗震、环境工程、工程合同与项目管理等领域，选材比较广泛。

另外，为了便于学生更快地掌握科技英语的阅读技巧，提高科技英语的阅读能力，本书也对科技英语的特点及一些主要阅读技巧进行了阐述。

本书适合土木工程、交通工程类有关专业主修，也适合其他专业的英语课外阅读及广大英语爱好者阅读。

本书在作为高等院校土木工程专业和高等职业教育教学用书的同时，也可作为广大涉外从业人员或相关专业的参考用书。

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Structural analysis comprises the set of physical laws and mathematics required to study and predict the behavior of structures. The subjects of structural analysis are engineering artifacts whose integrity is judged largely based upon their ability to withstand loads; they commonly include buildings, bridges, aircraft, ships and cars. Structural analysis incorporates the fields of mechanics and dynamics as well as the many failure theories. From a theoretical perspective the primary goal of structural analysis is the computation of deformations, internal forces, and stresses. In practice, structural analysis can be viewed more abstractly as a method to drive the engineering design process or prove the soundness of a design without a dependence on directly testing it. Structures can be classified in a variety of ways. The casual observer might first consider classifying structures according to their respective functions: buildings, bridges, ships, aircraft, towers, and so on. This basis for structural classification is in fact fundamental; all structures have some functional reasons for existence. It is the need to fulfill some function that prompts the designer to give life to a structure. Furthermore, it is the need for a safe, serviceable, feasible, and aesthetically pleasing fulfillment of a function that dictates the form, material, and manner of loading of a structure.

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