

<<化学工程与工艺专业英语>>

图书基本信息

书名：<<化学工程与工艺专业英语>>

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前言

组织编审出版系列的专业英语教材，是许多院校多年来共同的愿望。

在高等教育面向21世纪的改革中，学生基本素质和实际工作能力的培养受到了空前重视。

对非英语专业的学生而言，英语水平和能力的培养不仅是文化素质的重要部分，在很大程度上也是能力的补充和延伸。

在此背景下，教育部（原国家教委）几次组织会议研究加强外语教学问题，制订有关规范，使外语教学更加受到重视。

教材是教学的基本要素之一，与基础英语相比，专业英语教学的教材问题此时显得尤为突出。

国家主管部门的重视和广大院校的呼吁引起了化学工业出版社的关注，他们及时地与原化工部教育主管部门和全国化工类专业教学指导委员会请示协商后，组织全国十余个院校成立了大学英语专业阅读教材编委会。

在经过必要的调研后，根据学校需求，编委会优先从各校教学（交流）讲义中确定选题，同时组织力量开展编审工作。

本套教材涉及的专业主要包括化学工程与工艺、石油化工、机械工程、信息工程、生产过程自动化、应用化学及精细化工、生化工程、环境工程、制药工程、材料科学与工程、化工商贸等。

根据“全国部分高校化工类及相关专业大学英语专业阅读教材编审委员会”的要求和安排编写的《化学工程与工艺专业英语》教材，可供化工类及相关专业本科生使用，也可以作为同等程度（通过大学英语四级）的专业技术人员自学教材。

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内容概要

本书强调通过专业英语学习, 建立和充实专业知识框架。

教材分为“化学工业”、“化工工艺简介”、“化学工程”和“化工前沿领域”四大部分, 有利专业英语教师进行主题教学。

每个单元选用的原版专著和论文均达10处以上, 语言丰富, 有关化学工程和工艺的英语词汇反复出现

。教材选用的语言材料新(大部分为90年代出版物)、范围广(选自国外40余种专著、教科书、专业期刊等)

。学生可以通过学习这些材料, 从各个层面上接触和深化主题, 使基础比较差的学生得到明显提高, 使基础比较好的学生能提高语言应用的熟练程度。

与教材配套的教师参考资料随书赠送交流, 已受到使用该教材的20余所高校有关教师的欢迎, 并提供配套教辅材料。

本教材提供了化学工程与工艺专业的比较丰富的语言材料, 教师可以根据实际情况, 加以深化处理, 借以提高学生在专业英语方面听、说、写的能力。

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4. Manufacturing Chemical engineers occupy a central position in manufacturing (or "operations" or "production," as it is called in some companies) . Plant technical service groups are responsible for the technical aspects of running an efficient and safe plant. They run capacity and performance tests on the plant to determine where the bottlenecks are in the equipment, and then design modifications and additions to remove these bottlenecks. Chemical engineers study ways to reduce operating costs by saving energy, cutting raw material consumption, and reducing production ~ ~ of off-specification products that require reprocessing. They study ways to improve product quality and reduce environmental pollution of both air and water. In addition to serving in plant technical service, many engineers have jobs as operating supervisors. These supervisors are responsible for all aspects of the day-to-day operation of the plant, including supervising the plant operators who run the plant round the clock on a three-shift basis, meeting quality specifications, delivering products at agreed-upon times and in agreed-upon quantities, developing and maintaining inventories of equipment spare parts, keeping the plant well maintained, making sure safe practices are followed, avoiding excessive emissions into the local environment, and serving as spokespersons for the plant to the local community.

5. Technical Sales Many chemical engineers find stimulating and profitable careers in technical sales. As with other sales positions, the work involves calling on customers, making recommendations on particular products to fill customer's needs, and being sure that orders are handled smoothly. The sales engineer is the company's representative and must know the company's product line well. The sales engineer's ability to sell can greatly affect the progress and profitability of the company. The marketing of many chemicals requires a considerable amount of interaction between engineers in the company producing the chemical and engineers in the company using the chemical. This interaction can take the form of advising on how to use a chemical or developing a new chemical in order to solve a specific problem of a customer.

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