

<<化学专业基础英语>>

图书基本信息

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内容概要

本教材根据北京大学化学学院试用多年的讲义修订而成，无论从内容取舍还是从教学目的上看都是有开创性的。

本书在内容编排上试图训练学生在系统掌握专业英语词汇的基础上，学会用英语进行科学思维。

经北大化学学院多年教学使用，受到学生普遍欢迎。

全书45万字，分成基础化学讲座、重要专业订语和化学文献选讲及附录四部分。

附录中为读者提供了习题答案和试题、基本化学术语总汇以及一些阅读、会话、写作和翻译用资料及提高听力用的化学录像和光盘目录。

本书可与化学专业基础英语(II)配套使用??在接受本书的系统学习同时(或之后)，如辅以基础英语(II)的配合，读者则不难在领略多彩的化学世界前沿领域的同时，全面提高专业英语水平。

本书可作为大专院校化学及相关专业高年级学生专业英语教材或主要参考书，也可作为理工类研究生和教师以及一般科研人员的实用科技英语参考读物。

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书籍目录

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章节摘录

Analytical Chemical Terms 1. The Importance of Analytical Chemistry Historically, analytical chemistry has always occupied a vital position in the development of chemistry. The successful elucidation of the process of combustion by Lavoisier was due mainly to his employment of a balance in his investigations; he was among the first to recognize the immense power of quantitative measurements in chemical research. The atomic concept of matter dates back at least to ancient Greece, and certainly was not original with John Dalton. Dalton's contribution, above all, was to introduce a quantitative aspect to this notion an aspect that was verifiable by actual experiment. In a very real sense, then, chemical analysis provided the support necessary to convert the atomic theory from a philosophical abstraction into something of physical significance. Early chemistry was principally analytical in nature. Only as the body of experimental fact increased did it become possible for the chemist to specialize according to his interests in other fields. Irrespective of choice, however, he continued to rely heavily upon analytical methods and techniques to provide him with experimental information. Analytical chemistry thus assumed the supporting role of an indispensable tool in advancing the state of knowledge in the fields of inorganic, organic, and physical chemistry. This situation is as applicable to the chemistry of today as to that of the past; every experimental investigation relies, to an extent, upon the results of analytical measurements. A thorough background in analytical chemistry is thus a vital necessity for all who aspire to be chemists, regardless of their field of specialization. Nor need these remarks be limited to prospective chemists. Investigators in virtually all of the physical and biological sciences are obliged to make use of analytical data in the course of their work. The physician relies heavily upon the results of analysis of body fluids.

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《化学专业基础英语》(1)可作为大专院校化学及相关专业高年级学生专业英语教材或主要参考书,也可作为理工类研究生和教师以及一般科研人员的实用科技英语参考读物。

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