

<<科技英语>>

图书基本信息

书名：<<科技英语>>

13位ISBN编号：9787802097582

10位ISBN编号：7802097584

出版时间：2008-8

出版时间：中国环境科学出版社

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页数：154

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### 内容概要

本书是按照教育部《大学英语专业阅读阶段教学基本要求》编写而成。

是高年级学生在专业知识和英语学习上的补充和提高，也是学生开阔视野，直接了解世界范围内专业前沿知识和技术发展的必要途径。

本书选材广泛，内容新颖，既侧重于专业性基础英语的学习，又注意增加一些现代科技前沿的知识，内容涵盖了化学、环境和生物接术等方面。

课文难易适当，语言生动，结构严谨。

课文后面配有专业性词汇、词组的解释和课文关键性句子的注解，便于学生自学。

本书适合于理工科本、专科师生英语教学使用。

## 书籍目录

Unit 1 Air Fit to Breathe [ Reading material ] Recycling the WorldUnit 2 Chemical Equations and Formulas [ Reading material ] History of ChemistryUnit 3 Detergent [ Reading material ] Numbers in Physical QuantitiesUnit 4 Conductivity without Metals [ Reading material ] Units of MeasurementUnit 5 Applications of Electrolysis [ Reading material ] Nomenclature of Inorganic CompoundsUnit 6 All Shapes and Sizes [ Reading material ] Nomenclature for Organic Compounds and Groups ..Unit 7 The Global Warmers [ Reading material ] Origin of the Gene BanksUnit 8 Traffic Technology Drives to Clear the Road [ Reading material ] Facts in the Development of TransportationUnit 9 GM Organisms - Is GM the Future? [ Reading material ] Genetic ModificationUnit 10 Climate Change [ Reading material ] HurricanesUnit 11 Pesticides and Pest Control [ Reading material ] Clean ProductionUnit 12 Energy [ Reading material ] The Future of Clean CoalUnit 13 Carbon Capture Strategy Could Lead To Emission-free Cars [ Reading material ] Food Containers Leach a Potentially Harmful ChemicalUnit 14 Spy Satellite [ Reading material ] A Review of the U.S. Missile Defence SystemUnit 15 America's Wetlands (1) [ Reading material ] America's Wetlands (2)Unit 16 Creating Molecules and Materials by Design (1) [Reading material] Creating Molecules and Materials by Design (2)Appendix 1 科技英语词汇构成及解释Appendix 2 科技英语常用前缀和后缀

## 章节摘录

Unit 3 Detergent Detergent is a material that increases the cleaning effect of water on soiled objects. There are also non-aqueous detergents that enhance the cleaning power of organic solvents ; for example , they are used in dry cleaning and in engine oils to prevent dirt and gummy decomposition products from depositing on the metal. However , this lesson will discuss only those detergents that are effective in water.

Composition : Detergents vary in composition , depending on the cleaning task for which they are intended. Those that are used for laundering usually contain several basic kinds of ingredients. There are surface active agents , or surfactants , which are substances that greatly lower the surface tension of water. This physical effect is important in detergency , and many surfactants are effective detergents by themselves. There are also builders , which , are generally inorganic salts or alkalis that enhance the cleaning action of the surfactant , although they themselves may not be good detergents. Detergents may also contain auxiliary components that impart special performance characteristics to the material.

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