

## <<环境工程专业英语>>

### 图书基本信息

书名 : <<环境工程专业英语>>

13位ISBN编号 : 9787502557713

10位ISBN编号 : 7502557717

出版时间 : 2004-10

出版时间 : 化学工业出版社

作者 : 羌宁 编

页数 : 264

版权说明 : 本站所提供之下载的PDF图书仅提供预览和简介,请支持正版图书。

更多资源请访问 : <http://www.tushu007.com>

## <<环境工程专业英语>>

### 前言

《环境工程专业英语》是为提高高等学校环境专业学生的专业文献阅读能力和应用水平而编写的。课文题材广泛，选材上注意专业领域的覆盖面与知识的新颖性，除可满足课堂教学所需外，兼有提供课外阅读材料的功能。

全书共25章，包括环境与可持续发展，生态系统基础知识，环境工程师的职能，空气污染及控制，城市固体废物的全过程管理，有毒有害化学废物的处理处置，噪声及其控制，环境影响评价，国外的环境立法，给水工程和废水管道收集，废水的处理、处置和回用以及废水污泥的处理、处置等，还涉及废水处理工程的设计、运行管理和项目实施等方面，并简要系统地介绍了当今环境保护方面的新思维和科技成就。

为读者能较快扩展专业词汇，在课文中对一些专业词汇和术语用下划线提示，书后附有课文中出现过的词汇和专业术语总表并标注了第一次在书中出现的章号，以便于读者查阅；同时还对课文中的一些较难的句子和段落予以注释，以便于读者理解。

本书力图为读者在环境工程英语阅读能力的提高方面起到引路的作用，除适用环境工程大学三年级以上学生专业英语学习外，还适用于研究生和有关专业技术人员作为英文环境工程导论阅读材料使用。

限于编者的水平，教材中可能会出现错漏，望读者指正。

## <<环境工程专业英语>>

### 内容概要

《环境工程专业英语》旨在提高环境专业学生的专业文献阅读和应用水平，书中介绍了环境工程领域涉及的水、大气的污染与控制，固体废物的全过程管理，有害废物的处理处置，噪声及其控制，环境影响评价，环境立法，环境与可持续发展等内容，并简要介绍了当今环境保护方面的新科技。编者根据教学中学生易犯的错误在书中有重点地解释说明，具有很强的针对性。

书后的单词表注有该词在正文中的首次出处，便于检索。

《环境工程专业英语》适用于高等院校环境工程专业本科生作教材用，也可供环境工程专业研究生及相关专业人员使用。

## &lt;&lt;环境工程专业英语&gt;&gt;

## 书籍目录

Chapter 1 Environmental Issue  
1 . 1 Environmental Problems  
1 . 2 Living Sustainably  
1 . 3 Resources  
1 . 4  
Pollution  
1 . 5 Solutions : Working with the Earth  
Notes  
Chapter 2 Ecosystems  
2 . 1 The Concept of Ecosystem  
2 . 2 The Structure of Ecosystems  
2 . 3 Implications for Humans  
Notes  
Chapter 3 Cycling of Mineral Nutrients  
3 . 1 The Carbon Cycle  
3 . 2 The Nitrogen Cycle  
3 . 3 The Phosphorus Cycle  
Chapter 4 Environmental Engineering and Engineer  
4 . 1 The Environmental Engineer  
4 . 2 Consultant Services  
4 . 3 Studies and Designs  
4 . 4 Construction  
4 . 5 Start—UP and Training  
Notes  
Chapter 5 Air Pollution  
5 . 1 Definition of Air Pollution  
5 . 2 Sources of Air Pollutants  
5 . 3 General Effects of Air Pollution  
5 . 4 General Description of the Air Pollutants  
5 . 5 Major Air Pollutants  
Notes  
Chapter 6 Air Pollution Control  
6 . 1 Particulate Collection Mechanisms  
6 . 2 Particulate Control Equipment  
Notes  
Chapter 7 Air Pollution Control  
7 . 1 Particulate Controls  
7 . 2 Gaseous Pollutants Controls  
7 . 3 Absorption  
7 . 4 Adsorption  
7 . 5 Condensation  
7 . 6 Flaring  
7 . 7 Incineration  
7 . 8 Emerging Techniques  
Notes  
Chapter 8 Integrated Solid Waste Management  
8 . 1 The Concept of Solid Waste Management  
8 . 2 Functional Elements of a Waste Management System  
8 . 3 Integrated Solid Waste Management  
8 . 4 Operation of Solid Waste Management Systems  
8 . 5 Future Challenges and Opportunities  
Notes  
Chapter 9 The Unit Operations and Processes Used for the Separation and Processing of Waste Materials  
9 . 1 Unit Operations  
9 . 2 Waste Transformation Through Combustion  
9 . 3 Waste Transformation Through Aerobic Composting  
9 . 4 Disposal of Solid Wastes and Residual Matter  
Notes  
Chapter 10 Hazardous Chemical Waste Management  
10 . 1 Definition of Hazardous Waste  
10 . 2 Chemicals , Lifestyles , and the Environment  
10 . 3 Uncontrolled Sites  
10 . 4 Responsible Management  
10 . 5 Land Disposal Methods  
10 . 6 Alternatives to Land Disposal of Hazardous Waste  
10 . 7 Site Remediation  
Notes  
Chapter 11 Introduction to Environmental Impact Assessment  
11 . 1 Terminology  
11 . 2 1973 CEQ Guidelines for the Content of Environmental Impact Statements  
11 . 3 Expanded Scope of EIA  
11 . 4 Narrowed Scope of EIA  
11 . 5 Summary  
Notes  
Chapter 12 Environmental Impact Assessment  
12 . 1 Planning and Management of Impact Studies  
12 . 2 Simple Methods for Identification(Matrices , Networks , and Checklists)  
12 . 3 Description of Environmental Setting(Affected Environment)  
12 . 4 Indices and Indicators for Describing the Affected Environment  
12 . 5 Prediction and Assessment of Impacts on the Environmental Media  
12 . 6 Public Participation in Environmental Decision Making  
12 . 7 Environmental Monitoring  
Notes  
Chapter 13 Noise and Noise Control  
13 . 1 Noise  
13 . 2 Noise Control  
Chapter 14 Environmental Law and Standards  
14 . 1 Environmental Legislation  
14 . 2 Features of the National Environmental Policy Act  
14 . 3 Federal Legislation and Regulations for Air and Surface Water  
14 . 4 International Environmental Law and Diplomacy  
Chapter 15 Environmental Chemical Analysis  
15 . 1 The Role and Importance of Environmental Chemical Analysis  
15 . 2 Classical Methods  
15 . 3 Spectrophotometric Methods  
15 . 4 Electrochemical Methods of Analysis  
15 . 5 Gas Chromatography  
Chapter 16 Water  
16 . 1 Water Cycle and Sustainable Management  
16 . 2 The Water Cycle  
16 . 3 Human Impacts on the Water Cycle  
16 . 4 Sustainability and Water Management  
Chapter 17 Water Supply  
17 . 1 Groundwater Supplies  
17 . 2 Surface Water Supplies  
17 . 3 Water Transmission  
17 . 4 Pumps and Pumping  
17 . 5 Pump Characteristics Curves  
17 . 6 System Head Curves  
17 . 7 Operating Head and Discharge  
Notes  
Chapter 18 Wastewater Collection Systems  
18 . 1 Storm Sewer System  
18 . 2 Sanitary Sewer System(1)  
18 . 3 Sanitary Sewer System(2)  
18 . 4 Sewer Pipes and Jointing  
18 . 5 Lift Stations in Wastewater Collection  
Notes  
Chapter 19 Waste Water Engineering  
19 . 1 Wastewater Treatment  
19 . 2 Wastewater Reclamation and Reuse  
19 . 3 Biosolids and Residuals Management  
Notes  
Chapter 20 Wastewater Treatment Objectives , Methods and Implementation Consideration  
20 . 1 Wastewater Treatment Objectives and Regulations  
20 . 2 Classification of Wastewater Treatment Methods  
20 . 3 Application of Treatment Methods  
20 . 4 Implementation of Wastewater Management Programs  
Notes  
Chapter 21 Introduction to Wastewater Treatment Plant Design  
21 . 1 Impact of Flowrate and Mass—Loading Factors on Design  
21 . 2 Evaluation and Selection of Design Flowrates  
21 . 3 Evaluation and Selection of Design Mass Loadings  
21 . 4 Process Selection  
21 . 5 Elements of Conceptual Process Design  
Notes  
Chapter 22 Wastewater Treatment  
22 . 1 Physical Unit

## <<环境工程专业英语>>

Operations  
22 . 2 Chemical Unit Processes  
22 . 3 Biological Unit Processes  
Notes  
Chapter 23 Biological Nutrient Removal  
23 . 1 Nutrient Control Strategies  
23 . 2 Nutrient Removal Processes  
Chapter 24 Advanced Wastewater Treatment  
24 . 1 Need for Advanced Wastewater Treatment  
24 . 2 Treatment Technologies Used for Advanced Wastewater Treatment  
24 . 3 Removal of Residual Suspended Solids by Granular—Medium Filtration  
24 . 4 Removal of Residual Suspended Solids by Microscreening  
24 . 5 Removal of Toxic Compounds and Refractory Organics  
24 . 6 Removal of Dissolved Inorganic Substances  
Chapter 25 Sludge Treatment and Disposal  
25 . 1 Sludge Treatment Flow Diagrams  
25 . 2 Preliminary Operations  
25 . 3 Thickening(COncentration)  
25 . 4 Stabilization  
25 . 5 Anaerobic Sludge Digestion  
25 . 6 Aerobic Sludge Digestion  
25 . 7 Composting  
25 . 8 Conditioning  
25 . 9 Disinfection  
25 . 10 Dewatering  
25 . 11 Heat Drying  
. 12 Thermal Reduction  
25 . 13 Land Application of Sludge  
25 . 14 Other Beneficial Uses of Sludge  
25 . 15 Final Sludge and Solids Conveyance , Storage , and Disposal  
Glossary  
主要参考文献

## <<环境工程专业英语>>

### 版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>