

<<化学化工专业英语>>

图书基本信息

书名：<<化学化工专业英语>>

13位ISBN编号：9787122007704

10位ISBN编号：7122007707

出版时间：2007-10

出版时间：7-122

作者：张裕平

页数：295

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>

<<化学化工专业英语>>

内容概要

本书化学化工类的一本综合性英文著作。

全书选材面广，适用专业面宽，采用递进式写作，先是概括性的学科描述性短文，宏观介绍化学化工学科的特点以及文献写作、实验记录和查找网上化学资源等一般共性的知识；然后是描述化工过程单元操作及基础化工知识的短文；最后是代表性精读文章，内容涉及普通化学、无机化学、有机化学、分析化学、物理化学、生物化学及材料等内容；最后为各二级学科的化学专业术语，并进行了简单解释，可作为选读部分。

每篇文章后有详细的课文注释，很多文章中附有图片说明，增加了生动性和可读性。

本书涉及的词汇量较大，但均注有音标和一些构词规律，对一些语法现象也进行了详细的解释和分析。

本书适合作为高等院校化学、化工及相关专业的本科专业英语的教学用书，也可作为从事化学和化工领域的教学、科研和工程技术人员的参考用书。

书籍目录

Contents Part A Descriptive Short Articles 1. Chemistry:A Science for the Twenty?First Century 2. What is Chemical Engineering? 3. Applications of Inorganic Chemistry 4. The Map of Organic Chemistry 5. Introduction to Analytical Chemistry 6. What is Physical Chemistry? 7. Introduction to the Nanotechnology 8. A Green Chemistry Module 9. Combinatorial Chemistry:A Strategy for the Future 10. The Expression of Life 11. How to Keep a Laboratory Notebook 12. A Guide to Writing in Chemistry 13. Searching Chemistry Resources on the InternetPart B Basic Knowledge of Chemical Engineering 1. Chemical Engineering 2. The Difference between Engineering and Science 3. Pipe Lines 4. Valves 5. Centrifugal Pump 6. Cyclone Separators 7. Cooling Towers 8. Membranes 9. Reverse Osmosis 10. Diffusion Processes 11. Simulation of Chemical Process 12. Filtration 13. Evaporation 14. Crystallization 15. Drying 16. Mixing 17. Distillation 18. Adsorption 19. Reciprocating Compressors 20. Batch and Continuous Processes 21. Continuity Principle in Steady State Processes 22. Removal of Dust from Gases 23. Centrifugal Settling Processes 24. Heat Transfer 25. Heat Exchangers 26. Single? and Multiple?effect Evaporation Operation 27. Crystallization Equipment 28. Extraction 29. Liquid?liquid Extraction 30. Fluidization 31. The Phenomenon of Fluidization 32. Applications of Size Reduction 33. Size Reduction 34. Characterization of Solid Particle 35. Screening 36. Instrumentation and Control 37. Supercritical Fluids (SCFs) 38. Supercritical Fluid Extraction (SFE) 39. The Material Balance 40. The Energy Balance 41. The Ideal Contact (the equilibrium stage model) 42. Rates of an Operation (the rate of transfer model) 43. Application of Computers in Chemical Engineering 44. Chemical Manufacturing Process 45. Biotechnology 46. Bioengineer 47. Genetic Engineering 48. Tissue Culture 49. Cloning 50. Fermentation TechnologyPart C Intensive Articles of Chemistry 1. Introduction of General Chemistry 2. Atomic and Molecular Structure 3. Matter States 4. Chemical Reaction and Equilibrium 5. The Classification of the Elements 6. Chemical Bond and Bonding Theory 7. Br?sted Acids and Bases 8. Structure and Nomenclature of Hydrocarbons 9. Aromatic Compounds 10. Type of Organic Chemical Reactions 11. Working in the Lab 12. Basic Laboratory Apparatus and Manipulation 13. High Performance Liquid Chromatography and Capillary Electrophoresis 14. Structure Determination 15. Briefing on Chemical Thermodynamics and Chemical Kinetics 16. Electrochemistry and Nuclear Chemistry 17. Colloid 18. Ceramics 19. Biomaterials: Body Parts of the FuturePart D Chemistry Glossaries 1. General Chemistry 1.1 Atoms , Elements and Ions 1.2 Electrons in Atoms 1.3 Gases , Liquids and Solids 1.4 Solutions 1.5 Reactions in Solutio 2. Inorganic Chemistry 2.1 The Periodic Table 2.2 Chemical Bonds 2.3 Redox Reactions 2.4 Simple Compounds 3. Organic Chemistry 3.1 Organic Chemistry 3.2 Polymer 4. Analytical Chemistry 4.1 Basic Terms 4.2 Base Unit 5. Physical Chemistry 5.1 Energy and Chemical Change 5.2 Reaction Rates 5.3 The Quantum Theory 6. Other Related Chemistry 6.1 Consumer Chemistry 6.2 Environmental Chemistry 6.3 BiochemistryPart EAppendix Appendix IUPAC Names and Symbols of Elements Appendix Laboratory EquipmentReferences

<<化学化工专业英语>>

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>