

<<分析化学专业英语>>

图书基本信息

书名：<<分析化学专业英语>>

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内容概要

《分析化学专业英语》是分析化学专业英语教材，书中课文与阅读材料皆选自英文原版书刊。课文以分析化学（包括化学分析、仪器分析、环境分析、生物分析、化学计量学、计算机在分析化学中的应用等）内容为主干，辅以趣味性较强的化学概述（包括化学史、分析化学史、化学文献介绍等）和分析化学内容介绍等阅读材料。

课文注释全部采用英文，并附有不同形式的练习，全书配有双解形式生词和专业单词432个；另外，书末还附有进一步阅读文章的出处以及39种英文期刊的介绍及500个配合课文学习的专业单词。

《分析化学专业英语》可作为化学专业本科三年级以上学生和研究生分析专业英语教材，同时，也可作为研究所及厂矿企业分析化学专业人员英语学习之用。

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书籍目录

LESSON ONE The Basic Tasks in Analytical Chemistry
Reading Material : The Origins of Chemistry
LESSON TWO Problems and Solution in Analytical Chemistry
Reading Material : The Classical Period of Chemistry
LESSON THREE Decomposition of Samples
Reading Material : The Search of New Elements
LESSON FOUR Titrations in Non-Aqueous Solvents
Reading Material : Brønsted-Lowry Theory of Acids and Bases
LESSON FIVE Three Kinds of Indicator Methods in Precipitation Titrations of Cl^- with Ag^+
Reading Material : Chemical Handbooks and "The Chemical Abstracts"
LESSON SIX Detection of the End Point in Oxidation-Reduction Titrations
Reading Material : Titration of Mixtures
LESSON SEVEN Detection Limits and Spectral Interferences in Atomic Emission Spectrometry
Reading Material : History of Spectroscopy
LESSON EIGHT Flame Atomic Absorption Spectroscopy
Reading Material : IR Experimental Methods
LESSON NINE The Classical Theory of Vibrational and Rotational Spectroscopy
Reading Material : Near Ultraviolet and Visible Absorption Spectroscopy of Polymer
LESSON TEN Environmental Speciation by Chromatography
Reading Material : Chromatography
LESSON ELEVEN The Source and Family of Capillary Electrophoresis
Reading Material : History of Medicinal Chemistry and Biochemistry
LESSON TWELVE Potentiometry
Reading Material : Indicator Electrodes
LESSON THIRTEEN How Does Stripping Analysis Work
Reading Material : History of Stripping Analysis
LESSON FOURTEEN Instrument-Computer Interfaces
Reading Material : Role of the Analytical Chemist in Environmental Science
LESSON FIFTEEN Simplex Optimization
Reading Material : Drug Tests and Amateur Athletes
LESSON SIXTEEN Surface Acoustic Wave Gas Sensors and Its Chemically Interactive Materials
Reading Material : The Influence of Ultrasound on Chemical Reactivity
LESSON SEVENTEEN Past , Present , and Future of Immunoassays
Reading Materials : Mass Spectrometric Detection
LESSON EIGHTEEN Nuclear Magnetic Resonance (NMR) Spectroscopy
Reading Material : Carbon NMR Spectroscopy
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Appendix 2 : Recommended analytical Chemistry journals in English for Further Reading
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