

# 《科技英语》

## 图书基本信息

书名：《科技英语》

13位ISBN编号：9787564115050

10位ISBN编号：756411505X

出版时间：2008-12

出版社：东南大学

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页数：282

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# 《科技英语》

## 内容概要

《科技英语(电类)》可适应不同层次的读者选用，既可用作高等学校理工类本科教材，也适用于理工类学生考研参考、阅读。根据理工类本科生考研和掌握专业英语的需要，《科技英语》共分为两部分，第一部分为“精读”，共包含22个单元，涉及电力、机械、数控、电子技术、信号处理、现代通信、传感器、自动化等多学科知识，在每一个单元中的每篇课文后均安排了生词介绍、常见的语法知识和适量的课后习题。第二部分为“专业阅读材料”，安排了一些专业相关英文材料。

《科技英语(电类)》编写力求反映应用型本科的要求和理工类专业的教学特点，内容由浅入深，循序渐进，通俗易懂，基本概念和基本知识准确清晰，注重将英语和专业知识有机结合起来，并且特别注意以形象直观的形式来配合文字表述，重点突出。

## 书籍目录

第一部分 精读 Unit 1 Text A Voltage, Resistance and Current Text B Kirchhoff's Current Law(KCL) and Kirchhoff's Voltage Law(KVL) Grammar Exercises Reading Material: Superheterodyne Receiver Unit 2 Text A Radio Receivers Text B Audio Amplifiers Grammar Exercises Reading Material: Miniaturization and Microminiaturization Unit 3 Text A The Binary Number System Text B Logical Gates Grammar Exercises Reading Material: Digital Design Unit 4 Text A Minimum Power System Text B Desirable Feature of Hydroplant Grammar Exercises Reading Material : Dc Motors Unit 5 Text A Importance of Instrumentation Text B Differential Protection Grammar Exercises Reading Material: The Directional Protection Basis Unit 6 Text A Plastics and Other Materials Text B Cold Working and Hot Working Grammar Exercises Reading Material: Cams and Gears Unit 7 Text A Introduction of Machining Text B Flexible Manufacturing Systems Grammar Exercises Reading Material: Mechanism of Surface Finish Production Unit 8 Text A The Concept of Length Offset Text B Programming Grammar Exercises Reading Material: Software Issues and Trends. Unit 9 Text A Lasers Text B What Are Lasers Good For? Grammar Exercises Reading Material: Laser Safety Unit 10 Text A Frequency-Domain Descriptions Text B The Principle of PCM Grammar Exercises Reading Material: Time-Domain Descriptions Unit 11 Text A Electronic Digital Computer Text B C as a Structured Language Grammar Exercises Reading Material: Computer and Microcomputer Unit 12 Text A Computer Software Text B Linux Grammar Exercises Reading Material: Buses: Connecting I/O Devices to Processor and Memory Unit 13 Text A Input Devices of Computer Text B The System Bus Grammar Exercises Reading Material: Computers and Microcomputers Unit 14 Text A Data Communication Text B Communicating with Data Grammar Exercises Reading Material: Introduction to Switching Unit 15 Text A Global System for Mobile Communication (GSM) Text B CDMA Grammar Exercises Reading Material: Wireless Systems Unit 16 Text A Analogue Radio-relay System Text B Gigabit Ethernet Grammar Exercises Reading Material: Point-to-point communication Unit 17 Text A Optical Communications Text B WDM Grammar Exercises Reading Material: Generation 2.5 Mobile Cellular System Unit 18 Text A PID Control Text B State-space Analysis of Control Systems Grammar Exercises Reading Material : Nyquist's Stability Criterion Unit 19 Text A Root-locus Approach to Control System Design Text B Nonlinear Control Systems Grammar Exercises Reading Material: Terminology of Control Systems Unit 20 Text A The Simple Two-Coil Transformer Text B Artificial Neural Network Control Grammar Exercises Reading Material Unit 21 Text A Sensors Text B How Robots Work Grammar Exercises Reading Material: Humanoid Robots: A New Kind of Tool Unit 22 Text A The Oscilloscope Text B Superheterodyne Radio Receivers Grammar Exercises Reading Material: Optical Microscopy

第二部分 专业阅读材料 Passage A Interrupt System and Responding Service of 80C51 Passage B Laser Safety Passage C Network Hardware and Software Passage D The Wireless Channel

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