

# 《石油工程专业英语应用》

## 图书基本信息

书名：《石油工程专业英语应用》

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## 内容概要

《石油高等教育“十一五”规划教材：石油工程专业英语应用》中的英语科技文章皆精选自原版英文资料。与一般专业英语教材在课文后列示生词表的作法不同，本书对学生可能陌生的生词、专业术语采用括注中文注释的方式。这样一方面可以节省篇幅，突出主体内容；另一方面可使读者阅读更为方便和流畅，达到趣味盎然的阅读效果。书中所涉及的专业知识都是基础性的，不会因为专业知识的难度而影响学生的学习兴趣，但这些专业知识也不应当是科普类型的，而这正是当前一些专业英语教材的不足之处。本书编著者认为科普文章与真正的专业论文差距较大，不能完全满足专业英语教学的要求。另外需要说明的是，本书目录中标有符号\*者为编著者特别推介的，文风简洁优美、表述规范的文章，可作为英语科技论文写作学习模仿的范文。

COURSE INTRODUCTION 1. Why This Course? 2. The Main Aim of This Course 3. Strategy 4. Useful Tips for Reading Your Professional Papers 5. How Should You Do in This Course? 6. Some Explanations on Your Teaching Material 7. Notes to Teachers

PART 1 FOR INTERMEDIATE LEARNERS

CHAPTER 1 FUNDAMENTALS OF RESERVOIR ENGINEERING 1.1 Fluid Content of the Reservoir 1.2 Definition and Causes of Wettability 1.3 Wettability Influence on Multiphase Flow 1.4 Effects of Saturation States on Permeability 1.5 Permeability and Darcy's Law End-of-Chapter Terminologies Supplementary Reading Assignments

CHAPTER 2 OIL PRODUCTION AND SECONDARY RECOVERY 2.1 Reservoir Production Mechanisms 2.2 Water Drive 2.3 Solution Gas Drive 2.4 Gas Cap Drive and Gravity Drainage 2.5 Secondary Recovery 2.6 Geological Factors Affecting Waterflood Performance 2.7 Factors Affecting Selection of Waterflood Pattern 2.8 Reservoir Heterogeneity 2.9 Gas and Condensate Reservoirs 2.10 Production Mechanisms of a Fractured Reservoir End-of-Chapter Terminologies Assignments

CHAPTER 3 TECHNICAL SCIENTIFIC PRESENTATIONS 3.1 Introduction 3.2 Preparing a Presentation 3.3 Giving a Presentation 3.4 Discussion Skills Assignments

CHAPTER 4 DRILLING OPERATIONS 4.1 The Drilling Site 4.2 Selecting the Drilling Site 4.3 Preparing Site 4.4 Jobs on the Rig 4.5 Running Surface Casing 4.6 Cementation 4.7 Running Intermediate Casing and Drilling to Final Depth 4.8 Well Control 4.9 Well Logging and Well Completion 4.10 Setting Production Casing and Perforating 4.11 Installing Christmas Tree End-of-Chapter Terminologies Supplementary Reading Assignments

PART 2 FOR ADVANCED LEARNERS

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CHAPTER 6 RESERVOIR STIMULATION 6.1 Well Stimulation 6.2 Theories of Hydraulic Fracturing 6.3 Fracturing for Well Stimulation 6.4 Determination of Wells Applicable for Hydraulic Fracturing 6.5 Fracturing Fluid Properties 6.6 Factors Controlling Acid Reaction Rate End-of-Chapter Terminologies Supplementary Reading Assignments

CHAPTER 7 HEAVY OIL PRODUCTION 7.1 Introduction 7.2 In-situ Combustion 7.3 The Disadvantages of the In-situ Combustion 7.4 Steam Flooding 7.5 The Main Advantage and Disadvantage of Steam Flooding 7.6 Steam Stimulation Assignments

CHAPTER 8 SAND CONTROL 8.1 Definition of Sand Control 8.2 Causes of Sand Production 8.3 Damages of Sand Production 8.4 Sand Control Mechanisms 8.5 Mechanical Methods of Sand Control 8.6 Comparison of Sand Control Methods Assignments

CHAPTER 9 RESERVOIR SIMULATION 9.1 Historical Perspective 9.2 The Material Balance Equation 9.3 Numerical Reservoir Simulators 9.4 Types of Reservoir Simulators 9.5 The Black Oil Model 9.6 Some Well-known Commercial Simulators 9.7 Purpose of Reservoir Simulation 9.8 Reservoir Simulation Process

CHAPTER 10 PETROLEUM ECONOMY AND INTERNATIONAL COOPERATION 10.1 International Subcontracting Relationship 10.2 Equity Joint Venture 10.3 Technology Cooperation in International Trade 10.4 Main Current of Global Oil Import and Export 10.5 Managing in a Global Environment 10.6 Social Responsibility and Managerial Ethics Supplementary Reading

APPENDIX A . Some Practical Tips of Translating a Chinese Technical Article into English  
B . Translation a Scientific / Technical Article of English into Chinese  
C . My Viewpoint on Chinese English  
D . 英语沟通与中西方文化

REFERENCES

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