

## **Предисловие**

### **PART I**

#### **Unit 1**

A

Pre-text exercises

Word building

Active vocabulary

Text 1A. English Worldwide

Text and vocabulary exercises

B

Pre-text exercises

Text 1B. The United Kingdom of Great Britain and Northern Ireland . .

Text and vocabulary exercises

C

Pre-text exercises

Text 1C. The United States of America

Text and vocabulary exercises

Grammar review

To be

Speaking practice

Writing practice

Project box

#### **Unit 2**

A

Pre-text exercises

Word building

Active vocabulary

Text 2A. Britain and the British

Text and vocabulary exercises

B

Pre-teXt exercises

Text 2B. America and the Americans

Text and vocabulary exercises

C

Pre-text exercises

Text 2C. Travel and Business Etiquette (Do's and Don'ts)....

Text and vocabulary exercises

Grammar review

Прилагательное и наречие

Наречие (The Adverb)

Speaking practice

Writing practice

Project box

#### **Unit3**

A

Pre-text exercises

Word building

Active vocabulary

Text 3A. Engineering Education in the UK

. Text and vocabulary exercises

B

Pre-text exercises

Text 3B. Engineering Education in the USA

Text and vocabulary exercises

C

Pre-text exercises

Text 3C. Technical and Engineering Education in the Russian Federation

Text and vocabulary exercises

US-style Entrance Exam Takes Hold in Russia

Grammar review

Speaking practice

Writing practice

Татьянин день

Project box

#### **Unit 4**

A

Pre-text exercises

Word building

Active vocabulary

Text 4A. What Is an Engineer?

Text and vocabulary exercises

B

Pre-text exercises

Text 4B. Why Become an Engineer

Text and vocabulary exercises

c

Pre-text exercises

Text 4C. Qualities of a Competent Engineer

Text and vocabulary exercises

Grammar review

Образование и употребление Present, Past и Future Perfect в действительном залоге (Active Voice)

Модальные глаголы

Speaking practice

Writing practice

Project box

#### **Unit 5**

A

Pre-text exercises

Word building

Active vocabulary

Text 5A. Engineering in Ancient Era

Text and vocabulary exercises

B

Pre-text exercises

Text 5B. Advent of Electricity

Text and vocabulary exercises

C

Pre-text exercises

Text 5C. Modern Engineering

Text and vocabulary exercises

Grammar review

Страдательный залог (Passive Voice)

Metre and the Metric System

Парные союзы

Парные прилагательные

Speaking practice

Writing practice

Project box

## Unit 6

A

Pre-text exercises

Word building

Active vocabulary

Text 6A. Alfred Nobel and the Invention of Dynamite

Text and vocabulary exercises

B

Pre-text exercises

Text 6B. Steam Engine and James Watt

Text and vocabulary exercises

C

Pre-text exercises

Text 6C. Lise Meitner and the Discovery of Nuclear Fission

Text and vocabulary exercises

A Market for Ideas

Asia Innovation Awards

Grammar review

Страдательный залог с модальными глаголами

Speaking practice

Writing practice

Project box

## PART II

Unit?

A

Pre-text exercises

Word building

Active vocabulary

Text 7A. Our Planet — the Earth

Text and vocabulary exercises

B

Text 7B. Environmental Problems of the Earth

Text and vocabulary exercises .

C

Text 7C. Industry and the Environment

Text and vocabulary exercises

Litter bins for modern living

A new approach

Grammar review

Согласование времен

Speaking practice

Writing practice

Project box

Units

A

Pre-text exercises

Word building

Active vocabulary

Text 8A. What Is Energy?

Text and vocabulary exercises

B

Text 8B. Energy Generation Technologies

Text and vocabulary exercises

C

Text 8C. Green Energy

Text and vocabulary exercises

Types of Energy

Tidal Power<sup>1</sup> — the Energy from the Sea

Energy demand in developed and non-developed nations

World's Largest Wind Farm

Grammar review

The Infinitive

The Complex Object

The Complex Subject

Speaking practice

Writing practice

Project box

### **Unit 9**

A

Pre-text exercises

Word building

Active vocabulary

Text 9A. What Is Electricity?

Text and vocabulary exercises

...

B

Text 9B. How Is Electricity Generated?

Text and vocabulary exercises

Transformers

C

Text 9C. Electric Motors

Text and vocabulary exercises

Electricity in American Household

Grammar review

The Participle

The Nominative Absolute Participle Construction

(Самостоятельный причастный оборот)

Speaking practice

Writing practice

Project box

### **Unit 10**

A

Pre-text exercises

Word building

Active vocabulary

Text 10A. Transport

Text and vocabulary exercises

The Urban Transit Challenge

B

Text 10B. Construction

Text and vocabulary exercises

Construction Jobs

C

Text 10C. Machinery and Equipment ....

Text and vocabulary exercises

The Bearings

Grammar review

The Gerund  
Speaking practice  
Writing practice  
Project box  
Leaning / Tottering Buildings

### **Unit 11**

A  
Pre-text exercises  
Word building  
Active vocabulary  
Text 11 A. Computers  
Text and vocabulary exercises  
What Is Inside a Computer?

B

Text 11B. Ergonomics  
Text and vocabulary exercises

C

Text 11C. Nanotechnology  
Text and vocabulary exercises  
Nanotechnology and Life Sciences  
Nanotech Application  
Grammar review  
Attributive Constructions  
Speaking practice  
Writing practice  
Project box

### **Unit 12**

A

Pre-text exercises  
Word building  
Active vocabulary  
Text 12A. Challenges for Engineering  
Text and vocabulary exercises

B

Pre-text exercises  
Text 12B. Human Civilization in the Next Decade  
Text and vocabulary exercises

C

Text 12C. Technologies of the 21st Century  
Text and vocabulary exercises  
Grammar review

Глаголы *should* и *would*

Сослагательное наклонение (Subjunctive Mood)

Условные предложения

Бессоюзное присоединение условных придаточных предложений

People of Tomorrow

Speaking practice

Writing practice

Project box

### **Texts for supplementary reading**

Text 1. Canada

Text 2. Australia

Text 3. Holidays in Great Britain and the USA

Text 4. A. The University of Cambridge  
B. The University of California, Berkeley  
C. The Bauman Moscow State Technical University.  
Text 5. Nature of the Engineers' Work  
Text 6. What Do Different Engineers Do?  
Text 7. A. Engineering and Science  
B. Engineering and Medicine  
C. Engineering and Art  
Text 8. The History of Mechanical Engineering  
Text 9. Ernest Rutherford  
Text 10. Nikola Tesla  
Text 11. Modern Inventions  
Text 12. Environmental Engineering  
Text 13. Ecological Crisis  
Text 14. Ecological Problems of Russia  
Text 15. Electric Power Generation  
Text 16. Gas and Power Generation  
Text 17. History of Electricity Use  
Text 18. More Facts about Electricity  
Text 19. Geographical Challenges Facing Urban Transportation  
Text 20. Unique Construction Techniques  
Text 21. Mechanisms  
Text 22. Early History of Computing  
Text 23. The Personal Nature of Ergonomics  
Text 24. Nanotechnology  
Text 25. Engineering Solutions  
Text 26. Engineering Career Opportunities

**Games and other activities for fun**

**Приложение 1**

Справочник по английскому словообразованию  
(Word-building)

**Приложение 2**

Реферирование иностранного текста  
Аннотирование иностранного текста  
Алгоритм аннотирования

**Приложение 3**

Таблица неправильных глаголов

**Библиография**