

Table of contents

- **List of Figures, Tables and Boxes** (p. vii)
- **Foreword to the Second Edition** (p. xxi)
- **Foreword** (p. xxiii)
- **List of Acronyms and Abbreviations** (p. xxv)
- **1 Connections** (p. 1)
- **2 Energy** (p. 3)
- **Forces**
- **Concept of energy**
- **The expansion of gases and the evolution of steam engines Power**
- **The laws of thermodynamics**
- **3 Energy and Human Activities** (p. 35)
- **The energy cost of satisfying basic human needs**
- **Energy consumption as a function of income**
- **Energy consumption in rural areas and in peri-urban households**
- **4 Energy Sources** (p. 45)
- **Classification of the sources of energy**
- **Energy balances**
- **Energy resources and reserves**
- **Energy consumption per inhabitant**
- **5 Energy and Development** (p. 65)
- **Gross Domestic Product (GDP) and National Accounting**
- **Economic growth**
- **Disparities in income distribution**
- **Quality of life and the Kuznets curve**
- **Human Development Index (HDI)**
- **The relationship for energy-development**
- **Energy intensity: energy and economic product**
- **6 Energy: The Facts** (p. 101)
- **Environmental impacts due to energy production and use**
- **Qualification of environmental impacts in function of income**
- **Local urban pollution**
- **Regional pollution**
- **Global aspects: the greenhouse effect**
- **Occupational pollution**
- **7 Energy and the Environment: The Causes** (p. 181)
- **Indicators**
- **Contribution by sources**
- **8 Technical Solutions** (p. 243)
- **Energy efficiency**
- **Technological advances in power production**
- **Renewable energies**

- **Transportation**
- **Industry and other stationary pollution sources**
- **Electricity consumption in residential, commercial and public sectors**
- **Combatting deforestation**
- **9 Policies to Reduce Environmental Degradation (p. 337)**
- **Geographical scale of impacts**
- **Environmental law and energy**
- **Environmental support capacity: management by quality**
- **Environmental protection costs**
- **The cost of climate change**
- **Energy policies**
- **Integrated resource planning**
- **Barriers for emission reduction and overcoming policies**
- **Control of deforestation**
- **10 World Energy Trends (p. 381)**
- **Projections**
- **Conclusions from the outlooks**
- **Technological change**
- **Energy intensity trends**
- **11 Energy and Lifestyles (p. 403)**
- **Lifestyle and consumption patterns**
- **Consumer profiles**
- **12 Energy and the Science Academies (p. 413)**
- **Annex 1 Energy, Environment and Development Timeline (p. 417)**
- **Annex 2 Conversion Units (p. 429)**
- **Index (p. 441)**