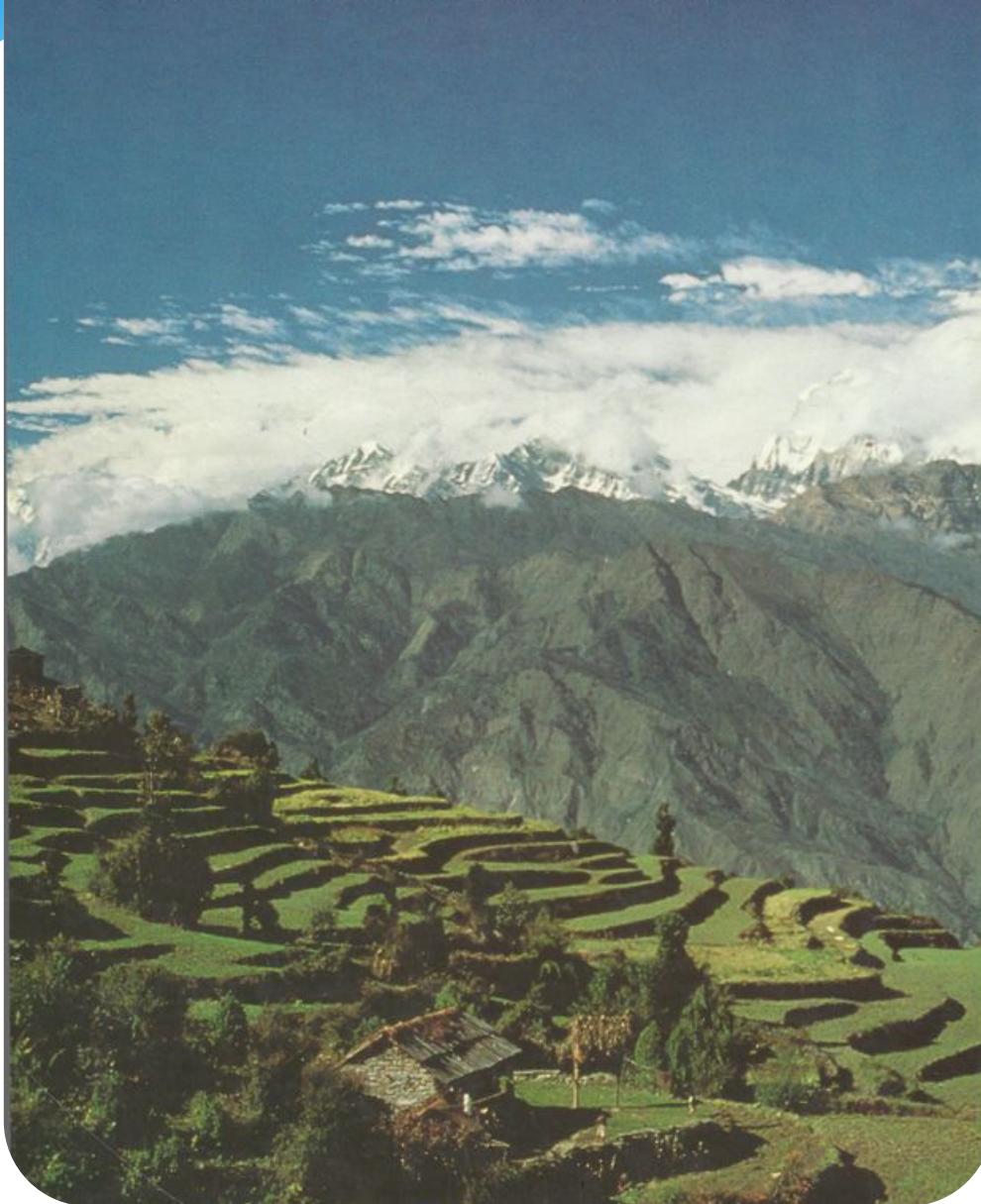


*LIVING IN THE  
ENVIRONMENT:  
An Introduction to  
Environmental Science*

*by* G. Tyler Miller Jr.



LIVING IN THE ENVIRONMENT / FIFTH EDITION / G. TYLER MILLER, JR.



## *Main information*

The title of the book is

**“LIVING IN THE ENVIRONMENT: An Introduction to Environmental Science”  
Fifth edition**

It was published by  
“Wadsworth Publishing company” in Belmont,  
California in 1985.

## *G. Tyler Miller Jr. Biography*



G. Tyler Miller Jr. has written or co-authored 60 editions of various textbooks for introductory courses in environmental science, basic ecology, energy, and environmental chemistry.

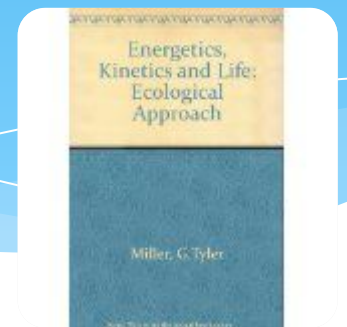
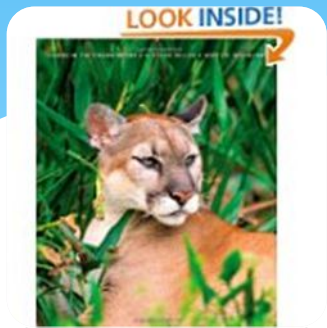
Since 1975, Miller's books have been the most widely used textbooks for environmental science in the United States and throughout the world.



Miller has a PhD from the University of Virginia and has received two honorary doctorate degrees for his contributions to environmental education.



He taught college for 20 years and developed an innovative interdisciplinary undergraduate science program before deciding to write environmental science textbooks full time in 1975.



# Contents in brief

## **Prologue / xxii**

### **PART ONE / HUMANS AND NATURE: AN OVERVIEW / 1**

Chapter 1 Population, Resources, Environmental Degradation, and Pollution / 2

Chapter 2 Human Impact on the Earth / 25

### **PART TWO / BASIC CONCEPTS / 43**

Chapter 3 Matter and Energy Resources: Types and Concepts / 44

Chapter 4 Ecosystems: What Are They and How Do They Work? / 68

Chapter 5 Ecosystems: What Are the Major Types? / 91

Chapter 6 Ecosystems: What Can Happen to Them? / 115

### **PART THREE / POPULATION / 135**

Chapter 7 Population Dynamics / 136

Chapter 8 Population Control / 152

Chapter 9 Population Distribution: Urbanization / 168

### **PART FOUR / RESOURCES / 187**

Chapter 10 Soil Resources / 188

Chapter 11 Water Resources / 208

Chapter 12 Food Resources and World Hunger / 234

Chapter 13 Land Resources: Wilderness, Parks, Forests, and Rangelands / 262

Chapter 14 Wild Plant and Animal Resources / 291

Chapter 15 Nonrenewable Mineral Resources / 317

Chapter 16 Nonrenewable Energy Resources: Fossil Fuels / 336

Chapter 17 Nonrenewable and Perpetual Energy Resources: Geothermal and Nuclear Energy / 361

Chapter 18 Perpetual and Renewable Energy Resources: Conservation, Sun, Wind, Water, and Biomass / 387

### **PART FIVE / POLLUTION / 421**

Chapter 19 Air Pollution / 422

Chapter 20 Water Pollution / 455

Chapter 21 Solid Waste and Hazardous Waste / 491

Chapter 22 Pesticides and Pest Control / 517

Chapter 23 The Environment and Human Health: Disease, Food Additives, and Noise / 534

### **PART SIX / ENVIRONMENT AND SOCIETY / 557**

Chapter 24 Economics and Environment / 558

Chapter 25 Politics and Environment / 572

Chapter 26 Environmental Ethics / 590

## **Epilogue / 603**

Appendixes / A-1

Further Readings / A-11

Glossary / A-39

Index / A-57

**Prologue / xxii**

**PART ONE / HUMANS AND NATURE: AN OVERVIEW / 1**

Chapter 1 Population, Resources, Environmental Degradation, and Pollution / 2

Chapter 2 Human Impact on the Earth / 25

**PART TWO / BASIC CONCEPTS / 43**

Chapter 3 Matter and Energy Resources: Types and Concepts / 44

Chapter 4 Ecosystems: What Are They and How Do They Work? / 68

Chapter 5 Ecosystems: What Are the Major Types? / 91

Chapter 6 Ecosystems: What Can Happen to Them? / 115

**PART THREE / POPULATION / 135**

Chapter 7 Population Dynamics / 136

Chapter 8 Population Control / 152

Chapter 9 Population Distribution: Urbanization / 168

**PART FOUR / RESOURCES / 187**

Chapter 10 Soil Resources / 188

Chapter 11 Water Resources / 208

Chapter 12 Food Resources and World Hunger / 234

Chapter 13 Land Resources: Wilderness, Parks, Forests, and Rangelands / 262

Chapter 14 Wild Plant and Animal Resources / 291

Chapter 15 Nonrenewable Mineral Resources / 317

Chapter 16 Nonrenewable Energy Resources: Fossil Fuels / 336

Chapter 17 Nonrenewable and Perpetual Energy Resources: Geothermal and Nuclear Energy / 361

Chapter 18 Perpetual and Renewable Energy Resources: Conservation, Sun, Wind, Water, and Biomass / 387

**PART FIVE / POLLUTION / 421**

Chapter 19 Air Pollution / 422

Chapter 20 Water Pollution / 455

Chapter 21 Solid Waste and Hazardous Waste / 491

Chapter 22 Pesticides and Pest Control / 517

Chapter 23 The Environment and Human Health: Disease, Food Additives, and Noise / 534

**PART SIX / ENVIRONMENT AND SOCIETY / 557**

Chapter 24 Economics and Environment / 558

Chapter 25 Politics and Environment / 572

Chapter 26 Environmental Ethics / 590

**Epilogue / 603**

Appendixes / A-1

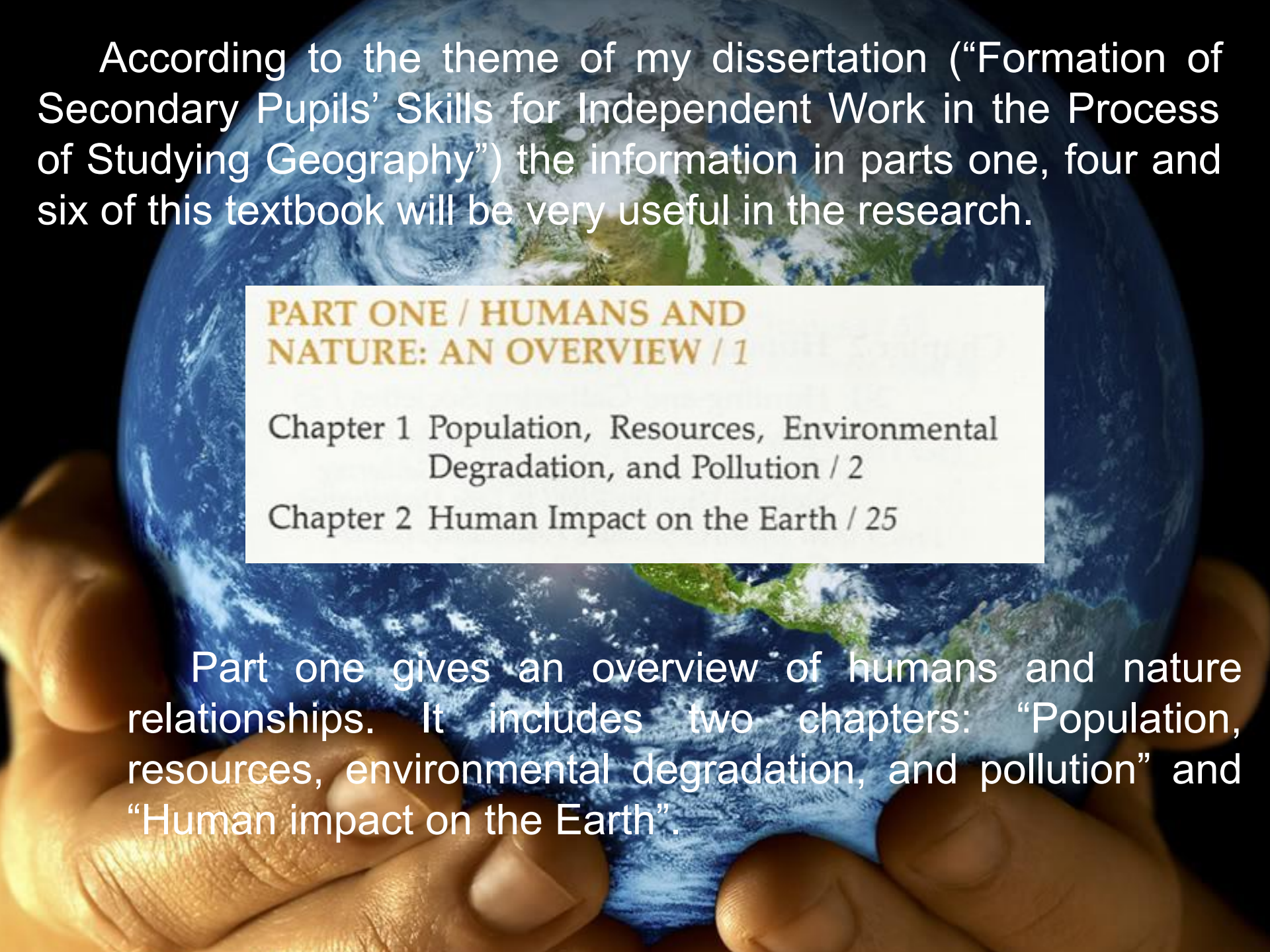
Further Readings / A-11

Glossary / A-39

Index / A-57

The book has logical construction. It is reflected through the sequence of parts. First the author discusses prologue.

Main information of the textbook is contained in six parts. Every part includes chapters. There are 26 chapters in this book. The final part of the textbook includes epilogue, appendixes, further readings, glossary and index.



According to the theme of my dissertation (“Formation of Secondary Pupils’ Skills for Independent Work in the Process of Studying Geography”) the information in parts one, four and six of this textbook will be very useful in the research.

**PART ONE / HUMANS AND  
NATURE: AN OVERVIEW / 1**

Chapter 1 Population, Resources, Environmental  
Degradation, and Pollution / 2

Chapter 2 Human Impact on the Earth / 25

Part one gives an overview of humans and nature relationships. It includes two chapters: “Population, resources, environmental degradation, and pollution” and “Human impact on the Earth”.

#### **PART FOUR / RESOURCES / 187**

Chapter 10 Soil Resources / 188

Chapter 11 Water Resources / 208

Chapter 12 Food Resources and World  
Hunger / 234

Chapter 13 Land Resources: Wilderness, Parks,  
Forests, and Rangelands / 262

Chapter 14 Wild Plant and Animal Resources / 291

Chapter 15 Nonrenewable Mineral Resources / 317

Chapter 16 Nonrenewable Energy Resources: Fos-  
sil Fuels / 336

Chapter 17 Nonrenewable and Perpetual Energy  
Resources: Geothermal and Nuclear  
Energy / 361

Chapter 18 Perpetual and Renewable Energy  
Resources: Conservation, Sun, Wind,  
Water, and Biomass / 387

Part six considers the following questions as “Economics and the Environment”, “Politic and the Environment”, and “Environmental Ethics”.

#### **PART SIX / ENVIRONMENT AND SOCIETY / 557**

Chapter 24 Economics and Environment / 558

Chapter 25 Politics and Environment / 572

Chapter 26 Environmental Ethics / 590

Part four discusses major types of resources and their characteristics, such as soil resources, water resources, land resources and others. Information of this part will be used in the process of my research. These aspects are examined in the curriculum of secondary school.



*Thank you for your attention!*