Contents

Preface x

One

INTRODUCTION: SOME BACKGROUND BASICS 3

Focus Preview 3
Getting Started 4
Evolution of the Discipline 4
Geography and Human Geography 6
Human Geography 7

Some Background Basics 7 Core Geographic Concepts 7

Location, Direction, and Distance 9

- Location 9
- Direction 11
- Distance 11

Size and Scale 12

Physical and Cultural Attributes 12 The Changing Attributes of Place 13 Interrelations between Places 15

The Structured Content of Place 15

- Density 15
- Dispersion 16
- Pattern 17

Place Similarity and Regions 17

• Types of Regions 17

Maps 18

Map Scale 18

The Globe Grid 20

How Maps Show Data 21

• Remote Sensing 24

Geographic Information Systems (GIS) 24

Mental Maps 26

Systems, Maps, and Models 27 The Structure of This Book 27

Summary 29

Key Words 29

For Review 29

Focus Follow-up 30

Selected References 30



Part One

THEMES AND FUNDAMENTALS OF HUMAN GEOGRAPHY 33

Two

ROOTS AND MEANING OF CULTURE 35

Focus Preview 35

Components of Culture 37

Interaction of People

and Environment 39

Environments as Controls 39

Human Impacts 40

Roots of Culture 43

Seeds of Change 44

Agricultural Origins and Spread 46 Neolithic Innovations 47

Culture Hearths 49

The Structure of Culture 51

Culture Change 54

Innovation 54

Diffusion 55

Acculturation and Cultural Modification 57

Contact between Regions 58

Summary 60 Key Words 60 For Review 60 Focus Follow-up 61 Selected References 61

Three

SPATIAL INTERACTION AND SPATIAL BEHAVIOR 63

Focus Preview 63

Bases for Interaction 64

A Summarizing Model 64

• Complementarity 65

• Transferability 65

• Intervening Opportunity 66 Measuring Interaction 66

• Distance Decay 66

• The Gravity Concept 67

• Interaction Potential 68

• Movement Biases 68

Human Spatial Behavior 69

Individual Activity Space 69

The Tyranny of Time 70

Distance and Human Interaction 72

Spatial Interaction and the Accumulation of Information 72

• Information Flows 73

Information and Perception 76

• Perception of Environment 76

• Perception of Natural Hazards 78

Migration 80

Principal Migration Patterns 81 Types of Migration 81 Controls on Migration 83 Globalization 89

Summary 91 Key Words 92 For Review 92 Focus Follow-up 92 Selected References 93

Four

Focus Preview 95

POPULATION: WORLD PATTERNS, **REGIONAL TRENDS 95**

Population Growth 96 Some Population Definitions 98

Birth Rates 98 Fertility Rates 99 Death Rates 102 Population Pyramids 105 Natural Increase 108 Doubling Times 108

The Demographic Transition 111 The Western Experience 111 A Divided World Converging 113

The Demographic Equation 115 Population Relocation 115

Immigration Impacts 117 World Population Distribution 117

Population Density 119 Overpopulation 120 Urbanization 122

Population Data and Projections 122 Population Data 123

Population Projections 123

Population Controls 125 Population Prospects 126 Momentum 127

Aging 127

Summary 128 Key Words 129 For Review 129 Focus Follow-up 129 Selected References 130



Part Two

PATTERNS OF DIVERSITY AND UNITY 133

Five

LANGUAGE AND RELIGION: MOSAICS OF CULTURE 135

Focus Preview 135

The Geography of Language 136

Classification of Languages 137

World Pattern of Languages 138

Language Spread 139

Language Change 143

The Story of English 144

Standard and Variant Languages 146

Standard Language 146

Dialects 146

• Dialects in America 147 Pidgins and Creoles 148

Lingua Franca 150

Official Languages 151

Language, Territoriality, and Identity 153

Language on the Landscape:

Toponymy 155

Patterns of Religion 156

Religion and Culture 156

Classification of Religion 157

Patterns and Flows 157

The World Pattern 158

The Principal Religions 160

Judaism 160

Christianity 162

• Regions and Landscapes of Christianity 163 Islam 166

Hinduism 168

Buddhism 169

East Asian Ethnic Religions 171

Summary 173

Key Words 174

For Review 174

Focus Follow-up 174

Selected References 175

Six

ETHNIC GEOGRAPHY: THREADS OF DIVERSITY 177

Focus Preview 177 Ethnic Diversity and Separatism 179 **Immigration Streams** 181 Acculturation and Assimilation 184

Areal Expressions of Ethnicity 186

Charter Cultures 187 Ethnic Clusters 189

Black Dispersions 191

Hispanic Concentrations 192

Asian Contrasts 195

Immigrant Gateways and Clusters 196

French Uniformity 196

Urban Ethnic Diversity

and Segregation 197

External Controls 199

Internal Controls 200

Shifting Ethnic Concentrations 201

Typologies and Spatial Results 202

Native-Born Dispersals 203

Cultural Transfer 204

The Ethnic Landscape 206

Land Survey 206

Settlement Patterns 208

Ethnic Regionalism 208

Summary 211

Key Words 211

For Review 211

Focus Follow-up 212

Selected References 212

Seven

FOLK AND POPULAR CULTURE: **DIVERSITY AND UNIFORMITY 215**

Focus Preview 215

Folk Cultural Diversity

and Regionalism 217

Anglo American Hearths 218

Folk Building Traditions and Hearths 220

Architectural Diffusions 225

Nonmaterial Folk Culture 226

Folk Food and Drink Preferences 227

• Folk and Customary Foods 227

• Drink 229

Folk Music 229

The Oral Folk Tradition 231

Folk Cultural Regions of Eastern United States 231

The Passing of Folk Cultural

Regionalism 233

Patterns of Popular Culture 233

National Uniformities

and Globalization 235

Our Material Culture Focus 237

The Shopping Mall 237

Outside the Mall 239

Regional Emphasis 240

Drink and Music 240

Vernacular Regions 245

Summary 246

Key Words 247

For Review 247
Focus Follow-up 247
Selected References 248



Part Three

DYNAMIC PATTERNS OF THE SPACE ECONOMY 251



LIVELIHOOD AND ECONOMY: PRIMARY ACTIVITIES 253

Focus Preview 253

The Classification of Economic Activity and Economies 254

Categories of Activity 254

Types of Economic Systems 256

Primary Activities: Agriculture 258

Subsistence Agriculture 258

- Extensive Subsistence Agriculture 260
- Intensive Subsistence Systems 262
- Urban Subsistence Farming 264
- Expanding Crop Production 265
- Intensification and the Green Revolution 265 Commercial Agriculture 269
- Production Controls 269
- A Model of Agricultural Location 270
- Intensive Commercial Agriculture 272
- Extensive Commercial Agriculture 272
- Special Crops 275
- Agriculture in Planned Economies 276

Primary Activities: Resource

Exploitation 277

Resource Terminology 277

Fishing 277

Forestry 280

Fur Trapping and Trade 282 Mining and Quarrying 282

- Metallic Minerals 283
- Nonmetallic Minerals 285
- Mineral Fuels 285

Trade in Primary Products 288

Summary 290

vi

Contents

Key Words 291

For Review 291

Focus Follow-up 291

Selected References 292

Nine

LIVELIHOOD AND ECONOMY: FROM BLUE COLLAR TO GOLD COLLAR 295

Focus Preview 295

Components of the Space Economy 296 Concepts and Controls 296

Secondary Activities: Manufacturing 298

Locational Decisions in

Manufacturing 298

- Principles of Location 298
- Raw Materials 299
- Power Supply 299
- Labor 300
- Market 300
- Transportation 300

Transportation and Location 303

Industrial Location Theories 304

- Least-Cost Theory 304
- Locational Interdependence Theory 304
- Proft-Maximization Approaches 305

Other Locational Considerations and Controls 306

- Agglomeration Economies 306
- Just-in-Time and Flexible Production 307
- Comparative Advantage, Outsourcing, and Offshoring 308
- Imposed Considerations 309

Transnational Corporations 310
World Manufacturing Patterns

and Trends 313

Anglo America 314

Western and Central Europe 314

Eastern Europe 316

Eastern Asia 317

High-Tech Patterns 319

Tertiary and Beyond 321

Tertiary Services 323

D 1T .: 224

Beyond Tertiary 324

Services in World Trade 325

Summary 327

Key Words 327

For Review 328

Focus Follow-up 328

Selected References 329



PATTERNS OF DEVELOPMENT AND CHANGE 331

Focus Preview 331

Development as a Cultural Variable 332 Dividing the Continuum: Definitions

of Development 333

Explanations of Underdevelopment 334 The Core-Periphery Argument 336

Economic Measures of Development 336

The Diffusion of Technology 338

The Complex of Development 340

Gross National Income and PPP per Capita 340

Energy Consumption per Capita 341 Percentage of the Workforce Engaged

Landlessness 343

in Agriculture 343

Poverty, Calories, and Nutrition 345

Composite Assessment of Economic Development 347

A Model for Economic Development 347

Noneconomic Measures of

Development 350

Education 350

Public Services 351

Health 353

Aggregate Measures of Development and Well-Being 354

The Role of Women 356

Summary 360

Key Words 361

For Review 361

Focus Follow-up 361

Selected References 362



Part Four

LANDSCAPES
OF FUNCTIONAL
ORGANIZATION 365



URBAN SYSTEMS AND URBAN STRUCTURES 367

Focus Preview 367

An Urbanizing World 369

Megacities and Merging Metropolises 369

Settlement Roots 372

The Nature of Cities 374

Some Definitions 374

The Location of Urban Settlements 375

The Functions of Cities 376

The Economic Base 376

Base Ratios 376

Systems of Urban Settlements 379

The Urban Hierarchy 379

World Cities 380

Rank-Size and Primacy 380

Urban Influence Zones 382

Central Places 383

Network Cities 384

Inside the City 385

The Competitive Bidding for Land 385

Land Values and Population Density 387

Models of Urban Land Use Structure 388

Social Areas of Cities 389

- Social Status 390
- Family Status 390
- Ethnicity 391

Institutional Controls 391

Suburbanization in the United States 392

Central City Change 395

Constricted Central Cities 395 Expanding Central Cities 400

World Urban Diversity 400

The Anglo American City 401

The West European City 402

The East European City 402

Cities in the Developing World 403

Summary 410

Key Words 411

For Review 411

Focus Follow-up 412

Selected References 412

Twelve

THE POLITICAL ORDERING OF SPACE 415

Focus Preview 415

National Political Systems 417

States, Nations, and Nation-States 417 The Evolution of the Modern State 418 Pressures of State Primacy 420

Geographic Characteristics of States 422

- Size 422
- Shape 422
- Location 424
- · Cores and Capitals 425

Boundaries: The Limits of the State 427

- Natural and Geometric Boundaries 427
- Boundaries Classified by Settlement 428
- Boundary Disputes 428

Centripetal Forces: Promoting State Cohesion 430

- Nationalism 430
- Unifying Institutions 431
- Organization and Administration 432
- Transportation and Communication 432

Centrifugal Forces: Challenges to State Authority 433

The Projection of Power 437

• Geopolitical Assessments 437

International Political Systems 439

Supranationalism 439

The United Nations and Its Agencies 439

- Maritime Boundaries 440
- An International Law of the Sea 440
- UN Affiliates 441

Regional Alliances 441

- Economic Alliances 442
- Military and Political Alliances 445

Local and Regional Political

Organization 446

The Geography of Representation: The Districting Problem 447

The Fragmentation of Political Power 448

Summary 451

Key Words 452

For Review 452

Focus Follow-up 452

Selected References 453



Thirteen

HUMAN IMPACTS ON NATURAL SYSTEMS 457

Focus Preview 457

Physical Environments and Cultural Impacts 458

Climates, Biomes, and Change 459

Global Warming 462

Air Pollution and Acid Rain 466

The Trouble with Ozone 469

Land Use and Land Cover 469

Tropical Deforestation 471

Desertification 473

Soil Erosion 475

Water Supply and Water Quality 479

Patterns of Availability 479

Water Use and Abuse 481

Garbage Heaps and Toxic Wastes 483

Solid Wastes and Rubbish 483

- Landfill Disposal 484
- Incineration 486
- Ocean Dumping 486

Toxic Wastes 487

• Radioactive Wastes 488

Exporting Waste 488
Prospects and Perspectives 490

Summary 491

Key Words 491

For Review 492

Focus Follow-up 492

Selected References 493

Appendices

- A: Map Projections 495
- B: 2005 World Population Data 503
- C: Anglo-America Reference Map 511

Glossary 513

Credits 529

Index 531

Part Five

HUMAN ACTIONS
AND ENVIRONMENTAL
IMPACTS 455

Contents

List of Boxes

Chapter 1

- Roger's Book, 6
- Careers in Geography, 8

Chapter 2

- Chaco Canyon Desolation, 42
- Is Geography Destiny? 48
- Cities Brought Low, 50
- Documenting Diffusion, 57
- A Homemade Culture, 59

Chapter 3

- Space, Time, and Women, 72
- Geography and Public Policy: Backlash, 86
- Gender and Migration, 90

Chapter 4

- China's Way—and Others, 100
- A Population Implosion? 103
- The Risks of Motherhood, 104
- 100 Million Women Are Missing, 107
- Our Delicate State of Health, 113
- Geography and Public Policy: The Cairo Plan, 116
- World Population Projections, 124

Chapter 5

- Language Exchange, 145
- World Englishes, 150
- Geography and Public Policy: An Official U.S. Language? 152
- Militant Fundamentalism, 159

Chapter 6

- The Matter of Race, 180
- Geography and Public Policy: Nations of Immigrants, 182
- The Rising Tide of Nationalism, 188
- The Caribbean Map in London, 199
- Colonies of Immigrants, 202

Chapter 7

- Vanished American Roots, 219
- Log Cabin Myths and Facts, 224
- A Taste for Dirt, 228
- The American Empire of Song, 231
- The Globalization of Reggae, 243

Chapter 8

- Swidden Agriculture, 262
- The Economy of a Chinese Village, 264
- Women and the Green Revolution, 268
- Geography and Public Policy: Public Land, Private Profit, 284
- A Costly Habit, 288

Chapter 9

- A Comparison of Transport Media, 302
- · Geography and Public Policy: Contests and Bribery, 311

Chapter 10

- Poverty and Development, 338
- Relative Characteristics of Development, 341
- The Energy Crisis in Less Developed Countries, 344
- Geography and Public Policy: Does Foreign Aid Help? 348
- Measuring Happiness, 355
- Empowering Women Financially, 358

Chapter 11

- Birds of a Feather . . . or, Who Are the People in Your Neighborhood? 391
- The Gated Community, 394
- Women in the City, 396
- Geography and Public Policy: The Homeless, 398
- The Informal Housing Problem, 408

Chapter 12

- The Ministates, 423
- Legislative Women, 433
- Terrorism and Political Geography, 435

- Specks and Spoils, 442
- Geography and Public Policy: Voting Rights and Race, 448

Chapter 13

- Our Inconstant Climates, 461
- Climate Change Summits, 466

- Depleting the Ozone Layer, 470
- Tropical Forests and Medical Resources, 472
- Dam Trouble in the Tropics, 473
- Maintaining Soil Productivity, 477
- A World of Water Woes, 482
- Geography and Public Policy: Yucca Mountain, 489