Contents

1

Preface ix Acknowledgment xi

1	The Space and Strategy of Demographic Growth 1			
1.1	Humans and Animals 1			
1.2	Divide and Multiply 5			
1.3	Jacopo Bichi and Domenica Del Buono, Jean Guyon, and Mathurine Robin 7			
1.4	Reproduction and Survival 9			
1.5	The Space of Growth 17			
1.6	Environmental Constraints 19			
1.7	A Few Figures 24			
	Notes 27			
	Further Reading 32			
2	Demographic Growth: Between Choice and Constraint 33			
2.1	Constraint, Choice, Adaptation 33			
2.2	From Hunters to Farmers: The Neolithic Demographic Transition 35			
2.3	Black Death and Demographic Decline in Europe 42			
2.4	The Tragedy of the American <i>Indios</i> : Old Microbes and New Populations 47			
2.5	Africa, America, and the Slave Trade 53			
2.6	The French Canadians: A Demographic Success Story 57			
2.7	Ireland and Japan: Two Islands, Two Histories 61			
2.8	On the Threshold of the Contemporary World:			
	China and Europe 67			
	Notes 73			
	Further Reading 84			

/i	Contents

vi	Contents		
	3.1 3.2 3.3 3.4	Land, Labor, and Population 85 Diminishing Returns and Demographic Growth 85 Historical Confirmations 89 Demographic Pressure and Economic Development 94 More on Demographic Pressure and Development:	
Examples from the Stone Age to the Present Day		Examples from the Stone Age to the Present Day 98	
	3.5	Space, Land, and Development 101	
	3.6 3.7	Population Size and Prosperity 108 Increasing or Decreasing Returns? 112 Notes 113 Further Reading 117	
	4 Toward Order and Efficiency: The Recent Demography of Europe and the Developed World 119		
	4.1	From Waste to Economy 119	
	4.2	From Disorder to Order: The Lengthening of Life 124	
	4.3	From High to Low Fertility 131	
	4.4	European Emigration: A Unique Phenomenon 137	
	4.5	A Summing Up: The Results of the Transition 143	
	4.6 Theoretical Considerations on the Relationship between Demographic and Economic Growth 146		
	4.7	More on the Relationship between Demographic and Economic Growth: Empirical Observations 150 Notes 157 Further Reading 164	
	5	The Populations of Poor Countries 167	
	5.1	An Extraordinary Phase 167	
	5.2	The Conditions of Survival 172	
	5.3	A Brief Geography of Fertility 179	
	5.4	The Conditions and Prospects for Fertility Decline and Demographic Policy 184	
	5.5	India and China 191	
	5.6	Fertilia and Sterilia 201	
	5.7	Explaining a Paradox 205 Notes 212 Further Reading 222	
	6	The Future 225	
	6.1	Population and Self-Regulation 225	
	6.2	The Numbers of the Future 227	
	6.3	The North–South Divide and International Migration 233	
	6.4	On Sustainability of Extended Survival 242	
	6.5	The Moving Limits 251	

6.6	Non-Renewable Resources and the Parable of Pauperia			
	and Tycoonia	255		

- 6.7 Food for All? 259
- Space and Environment in a Smaller Planet 265 6.8
- Calculations and Values 270 6.9 Notes 274

Major Scientific Journals for Further Reading 281 Index 283