CONTENTS

LIST OF EXHIBITS xv
PREFACE xvii
USING THIS BOOK xix

I. INTRODUCTION 1
Overview 1

I.A. MEASURING DEVELOPMENT 5
Note I.A.1. The Evolution of Measures of Development 5
Selection I.A.1. Why Are Services Cheaper in the Poor Countries? 13
Comment I.A.1. The Productivity and Factor Proportions Explanations Again 17
Selection I.A.2. Burden of Poverty 18
Comment I.A.2. Capabilities and Entitlements 30

I.B. ECONOMIC PERFORMANCE OF LESS DEVELOPED COUNTRIES:
THE RECENT PAST 35
Selection I.B.1. The East Asian Miracle 36
Selection I.B.2. East Asian Crisis: An Overview 42
Selection I.B.3. Completing China’s Move to the Market 48
Selection I.B.5. The Launching of the Reforms 58
Selection I.B.6. Indian Economic Reforms: Background, Rationale,
   Achievements, and Future Prospects 61
Note I.B.1. The Triumph of Laissez-Faire? 64
Selection I.B.7. Explaining Africa’s Development Experiences 65

I.C. THE DISCIPLINE OF DEVELOPMENT ECONOMICS 69
Note I.C.1. Evolution of Development Economics 69
Comment I.C.1. Classical Growth Theory 72
Comment I.C.2. Development Economics as a Special Subject 73
Note I.C.2. New Endogenous Growth Theory 75
## II. HISTORICAL PERSPECTIVE

Overview: The Division of the World

| Selection II.1. The Spread of Economic Growth to the Third World: 1850–1980 | 80 |
| Comment II.1. State-owned Enterprises and Privatization | 96 |
| Selection II.2. The Division of the World and the Factoral Terms of Trade | 97 |
| Note II.1. Why Not Export First? | 102 |
| Note II.2. The Lewis Model of the World Economy | 104 |
| Selection II.3. Agricultural Productivity, Comparative Advantage, and Economic Growth | 107 |
| Comment II.2. Income Elasticity of Demand for Food in the Matsuyama Model | 110 |
| Selection II.4. Income Distribution, Market Size, and Industrialization | 111 |
| Comment II.3. Minimum Market Size in the Murphy–Shleifer–Vishny Model | 113 |
| Selection II.5. Divergence, Big Time | 114 |

## III. SAVINGS AND INVESTMENT

Overview: Savings—The Engine of Growth?

| Note III.1. The AK Model | 123 |
| Selection III.1. Is Fixed Investment the Key to Economic Growth? | 126 |
| Selection III.2. Interest Rates in the Organized Money Markets of Underdeveloped Countries and Interest Rates Outside the Organized Money Markets of Underdeveloped Countries | 129 |
| Selection III.3. Financial Liberalization in Retrospect: Interest Rate Policies in LDCs | 133 |
| Comment III.1. Financial Liberalization | 136 |
| Selection III.5. Financial Development and Economic Growth: Views and Agenda | 141 |
| Selection III.6. Good Policy or Good Luck? Country Growth Performance and Temporary Shocks | 147 |
| Comment III.2. Policies Versus Shocks: A Closer Look | 153 |

## IV. INTERNATIONAL TRADE AND TECHNOLOGY TRANSFER

Overview

| IV.A. TRADE | 159 |
| Selection IV.A.1. Natural Resource Abundance and Economic Growth | 161 |
| Note IV.A.1. Import-substituting Industrialization and the Infant-Industry Argument | 168 |
| Selection IV.A.2. Typology in Development Theory: Retrospective and Prospects | 170 |
| Selection IV.A.3. An Exposition and Exploration of Krueger’s Trade Model | 175 |
| Comment IV.A.1. Moving Up the Ladder and Changes in Relative Costs of Factors of Production | 178 |
Selection IV.A.5. Exchange Control, Liberalization, and Economic Development 187
Selection IV.A.6. Trade Policy Reform 191
Comment IV.A.2. Stabilization-cum-Liberalization Programs 193
Selection IV.A.7. Getting Interventions Right: How South Korea and Taiwan Grew Rich 195
Note IV.A.2. Tradeability of Intermediate Goods, Linkages, and Bottlenecks 202

IV.B. FOREIGN CONTACT AND TECHNOLOGY TRANSFER 204
Note IV.B.1. Learning in International Production Networks 204
Selection IV.B.1. Technology Gaps Between Industrial and Developing Countries: Are There Dividends for Latecomers? 206
Selection IV.B.2. The Benefits of FDI 209
Note IV.B.2. Trade as Enemy, Handmaiden, and Engine of Growth 211

V. HUMAN RESOURCES 213

Overview 213

V.A. EDUCATION 216
Note V.A.1. Three Views of the Contribution of Education to Economic Growth 216
Selection V.A.2. Economic Impact of Education 223
Comment V.A.1. Ability Differences, Spillovers, and the Returns to Education 226
Comment V.A.2. Education and Development 227
Selection V.A.3. Interpreting Recent Research on Schooling in Developing Countries 229
Selection V.A.4. Schooling Quality in a Cross Section of Countries 234
Selection V.A.5. Creating Human Capital 237

V.B. POPULATION 241
Note V.B.1. The Size of the World’s Population and the Size of the Average Family 241
Selection V.B.1. Economic Approaches to Population Growth 242

V.C. HEALTH AND NUTRITION 249
Selection V.C.1. Health and Nutrition 254
Selection V.C.2. Investing in Health 257

V.D. GENDER AND DEVELOPMENT 263
Selection V.D.1. Women’s Education in Developing Countries: An Overview 263
Selection V.D.2. Women in the Labor Force 271
Selection V.D.3. Women, Poverty, and Development in the Third World 275
Selection V.D.4. Women in Developing Countries 280
Selection V.D.5. Missing Women 283
Comment V.D.1. The Grameen Bank and "Empowerment" of Women 287
Comment V.D.2. Gender-Aware Analysis 288

VI. MIGRATION AND THE URBAN INFORMAL SECTOR 289
Overview: The Evolving View of Urban Underemployment, the Informal Sector, and Their Connection with Rural-Urban Migration 289
Selection VI.1. Urban Growth in Developing Countries: A Demographic Reappraisal 293
Selection VI.2. Economic Development with Unlimited Supplies of Labor 297
Selection VI.3. A Model of Labor Migration and Urban Unemployment in Less Developed Countries 300
Note VI.1. The Lewis Versus the Harris–Todaro View of Underemployment in Less Developed Countries 302
Selection VI.4. Wage Spillover and Unemployment in a Wage-gap Economy: The Jamaican Case 307
Note VI.2. Econometric Studies of Migration 312
Selection VI.5. The Informal Sector 313
Selection VI.8. The Role of the Informal Sector in the Migration Process: A Test of Probabilistic Migration Models and Labour Market Segmentation for India 323

VII. AGRICULTURE 329
Overview 329

VII.A. THE IMPORTANCE OF AGRICULTURE FOR ECONOMIC DEVELOPMENT 332
Selection VII.A.1. Development Strategy in a Limping World Economy 332
Note VII.A.1. Food, Hunger, Famine 335

VII.B. DESIGNING AN AGRICULTURAL STRATEGY 336
Selection VII.B.1. Some Theoretical Aspects of Agricultural Policies 336
Comment VII.B.1. The Green Revolution 345
VIII.C. CASE STUDIES

Selection VIII.C.1. Economic Growth and Income Distribution in Taiwan, 1953–64 409
Selection VIII.C.2. Brazilian Size Distribution of Income 417

IX. POLITICAL ECONOMY 421

Overview 421

IX.A. THE (PROPER) ROLE OF THE STATE IN LESS DEVELOPED COUNTRIES 426

Selection IX.A.1. Public Policy and the Economics of Development 426
Comment IX.A.1. Development Planning 431
Comment IX.A.2. Governing the Market 432

IX.B. RENT SEEKING AND GOVERNMENT FAILURE 434

Note IX.B.1. What Are Rents? 434
Selection IX.B.1. The Political Economy of the Rent-Seeking Society 437
Comment IX.B.1. Complete Rent Dissipation Through Competitive Rent Seeking in the Harris–Todaro Model 440
Comment IX.B.2. The Relationship Between Rent Seeking and Corruption 440
Selection IX.B.2. Neoclassical Political Economy, the State, and Economic Development 442
Selection IX.B.3. India 446
Selection IX.B.4. Governments and Agricultural Markets in Africa 450

IX.C. STATE CAPACITY 471

Selection IX.C.1. Institutions and Economic Performance:
Cross-Country Tests Using Alternative Institutional Measures 471
Selection IX.C.2. The State as Problem and Solution:
Predation, Embedded Autonomy, and Structural Change 476
Selection IX.C.3. Taking Trade Policy Seriously:
Export Subsidization as a Case Study in Policy Effectiveness 495
Selection IX.C.4. Bureaucratic Structure and Bureaucratic Performance in Less Developed Countries 508

X. DEVELOPMENT AND THE ENVIRONMENT 517

Overview: Environmental Problems in Less Versus More Developed Countries 517
Selection X.1. Development and the Environment 520
Comment X.1. The “Environmental Kuznets Curve” 529
Selection X.2. North–South Trade and the Global Environment 531
<table>
<thead>
<tr>
<th>CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comment X.2. Empirical Studies of the Impact of International Trade on the Environment in Less Developed Countries</td>
</tr>
<tr>
<td>Selection X.3. Deforestation and the Rule of Law in a Cross Section of Countries</td>
</tr>
<tr>
<td>Selection X.4. Determinants of Pollution Abatement in Developing Countries: Evidence from South and Southeast Asia</td>
</tr>
<tr>
<td>Selection X.5. Sustainable Development: Ecology and Economic Progress</td>
</tr>
<tr>
<td>Comment X.3. Weak Sustainability, Genuine Savings, and Green National Accounting</td>
</tr>
</tbody>
</table>

| APPENDIX: HOW TO READ A REGRESSION TABLE | 561 |
| INDEX OF SELECTION AUTHORS | 567 |
| INDEX | 569 |
EXHIBITS

Exhibit I.A.1. Basic Indicators 8
Exhibit I.A.2. Exchange-Rate-Deviation Index in Relation to Real GDP per Capita, Thirty-four Countries, 1975. 12
Exhibit I.A.3. The Human Development Index 21
Exhibit I.A.4. Similar Income, Different Human Development, 1993 23
Exhibit I.A.5. Human Development Index Rankings 24
Exhibit I.B.1. Balance Sheet of Human Development—Developing Countries 35
Exhibit III.1. Economic and Social Indicators in Fast and Slow Growth Economies 122
Exhibit IV.A.1. Share of Primary Products in Merchandise Exports and Index of Export Concentration 159
Exhibit V.C.1. Health Indicators 249
Exhibit V.C.2. Life Expectancies and Health Expenditures in Selected Countries 262
Exhibit VI.1. Self-employment and Unpaid Family Workers Circa 1990 295
Exhibit VII.D.1. Rural and Urban Poverty in the 1980s 373
Exhibit IX.A.1. Market Failure and State Intervention 431
The economics of development is one of the most exciting subjects in social science. Why, two centuries after the Industrial Revolution, are poverty and its attendant ills so prevalent in most of the world? And what can be done about it? Nobel Prize–winning economist Robert Lucas wrote of the questions addressed by development economics, “Once one starts to think about them, it is hard to think about anything else” [“On the Mechanics of Economic Development,” *Journal of Monetary Economics* 22 (July 1988), p. 5].

Development economics is also a very frustrating subject. Unlike most areas within economics, there exists no consensus on what the student should know. Two scholars can with equal justification write two completely different textbooks.

The aim of this book is to convey as much of the excitement of development economics and as little of the frustration as possible. To this end we have avoided writing the ordinary type of textbook, instead culling the most insightful readings from the diffuse field of development and bringing them into conceptual order. By using this distinctive approach we allow for a variety of perspectives while keeping in sight the most important overarching themes. The section “Using This Book” (p. xix) describes our strategy of combining excerpted readings (“Selections”) with our own “Overviews,” “Notes,” “Comments,” and “Exhibits.”

After being responsible for the previous six editions of *Leading Issues in Economic Development* over the past 35 years, Professor Meier has now selected Professor Rauch to upgrade and modernize this seventh edition and to perpetuate subsequent editions. This edition is mainly Professor Rauch’s effort. It reflects his desire to strengthen the analytical and quantitative dimensions of development economics and to illuminate contemporary—and future—problems of development policymaking. In all, it provides fresh and serious attention to the interplay between development experience, changing views of economists, and policy.

While this seventh edition maintains the format of previous editions, the inclusion of a new author has brought many changes relative to the sixth edition:

- New chapters on income distribution and on development and the environment have been added while other chapters have been consolidated.
- Most of the Selections and Notes are new.
- The representation in the Selections of articles from leading professional journals has increased.
- The Selections make greater use of statistical analysis, and an Appendix, “How to Read a Regression Table,” has been added to ensure that these Selections are easily accessible to all readers.

We wish to express our appreciation to the authors and publishers who have granted permission to use excerpts from publications for which copyrights exist. Specific acknowledgment is given with each Selection. Some parts of the original versions of the excerpted materials have been omitted out of consideration for relevance and to avoid repetition. In some instances, tables and diagrams have been renumbered and the footnotes have been deleted or renumbered.

We would like to thank a number of extremely busy people who generously took time out to provide advice or to comment on portions of the manuscript: Richard Carson, Graham Elliott, Peter Evans, and Dani Rodrik. We would also like to acknowledge the valuable research assistance of Neville Francis, Timothy Kane, Paula Lindsay, and Donald McCubbin. James Rauch wishes to thank his wife, Doris
Bittar, for making room in her life for this book during its final months of preparation. Kenneth MacLeod has been a very helpful and patient editor. Finally, we are grateful to the entire profession of social scientists whose writings on development provide the foundation for this volume.
USING THIS BOOK

Instructors and students can use this book more like a main text or more like a supplementary reader. To facilitate the latter approach the contents have been designed to allow individual freedom of choice in deciding what chapters and Selections to read and in what sequence. If the former approach is taken, the organizational and thematic guidance of the chapter Overviews can be followed and the chapters can be read in numerical order.

The chapters include the following materials:

Overviews: These are introductory essays that show how the subsequent chapter materials fit together and elucidate one or more overarching themes. They sometimes contain ideas that are not explicitly presented by the other chapter materials.

Selections: These are the core of the book. They present a broad sample of the major contributions by scholars and practitioners on the central issues in economic development. Each Selection has been edited for the sake of brevity and to highlight the points of greatest relevance for the chapter in which it appears.

Notes: These serve two purposes. One is to expound important ideas that are extant in the literature but are not presented as clearly or simply as we would like. The other is to present more original material that complements the Selections.

Comments: Like the Notes, these serve two purposes. One is to clarify or expand upon the immediately preceding Selection. The other is to suggest additional readings on the subject of the immediately preceding Selection.

Exhibits: These are tables and charts that provide empirical illustrations and data on topics under discussion. Starting with Selection III.1, some Selections include regression tables. Readers without econometric training are urged to refer to the Appendix to get the most insight from these Selections.
INDEX OF SELECTION AUTHORS

Ahluwalia, Montek S., 387–90
Alesina, Alberto, 401–3, 404–8
Balassa, Bela, 180–86
Banerjee, Biswajit, 323–27
Barbier, Edward, 554–59
Bardhan, Pranab, 359–60, 446–49
Barro, Robert J., 234–36
Bates, Robert H., 450–55
Behrman, Jere R., 254–56
Benhabib, Jess, 218–22
Bhagwati, Jagdish N., 13–17, 187–90
Binswanger, Hans P., 356–58
Birdsall, Nancy, 242–48
Blomström, Magnus, 126–28
Braverman, A., 361–63
Bardhan, Pranab, 359–60, 446–49
Barro, Robert J., 234–36
Bates, Robert H., 450–55
Behrman, Jere R., 254–56
Benhabib, Jess, 218–22
Bhagwati, Jagdish N., 13–17, 187–90
Binswanger, Hans P., 356–58
Birdsall, Nancy, 242–48
Blomström, Magnus, 126–28
Braverman, A., 361–63
Bujon, Mayra, 275–79
Cardoso, Eliana, 52–57
Chichilnisky, Graciela, 531–33
Collier, Paul, 280–282
Deacon, Robert T., 535–43
Deardorff, Alan V., 175–78
Deolalikar, Anil B., 254–56
Easterly, William, 147–53, 456–70
Edwards, Sebastian, 58–60
Evans, Peter B., 476–94, 508–15
Fei, John C. H., 409–16
Fields, Gary S., 318–22, 391–93
Fishlow, Albert, 52–57, 417–20
Guasch, J. L., 361–63
Hausheer, Eric A., 229–33
Harrison, Ann, 209–10
Hettige, Hemamala, 544–53
Hill, M. Anne, 263–70
Huq, Mainul, 544–53
ILO Mission, 313–15
International Labour Office, 271–74
Johnston, Bruce F., 340–45
Keifer, Philip, 471–75
Khalily, Badi, 285–87
Khan, Zahed, 285–87
Khandker, Shahidur R., 285–87
King, Elizabeth M., 263–70
Knack, Stephen, 471–75
Kremer, Michael, 147–53
Krueger, Anne, 187–90, 437–40
Kuo, Shirley W. Y., 409–16
Kuznets, Simon, 382–86
Lee, Jong-Wha, 234–36
Levine, Ross, 141–46, 456–70
Lipsey, Robert E., 126–28
Lipton, Michael, 370–72
Livingstone, Ian, 316–17
Lycette, Margaret A., 275–79
McKinnon, Ronald L., 133–36
Markandya, Anil, 554–59
Matsuyama, Kiminori, 107–9
Murphy, Kevin M., 111–13
Overseas Development Institute, 65–68
Pack, Howard, 206–8
Pargal, Sheoli, 544–53
Patrick, Hugh T., 138–40
Pearce, David, 554–59
Perkins, Dwight, 48–51
Perotti, Roberto, 404–8
Preston, Samuel H., 293–94
Pritchett, Lant, 114–18, 147–53
Psacharopoulos, George, 223–26
Ranis, Gustav, 170–74, 409–16
Rauch, James E., 395–99, 508–15
Reynolds, Lloyd G., 80–95
Robinson, Sherman, 394
Rodrik, Dani, 195–201, 401–3, 495–507
Rosenzweig, Mark R., 356–58
Sachs, Jeffrey D., 161–67
Sen, Amartya, 283–84
Shleifer, Andrei, 111–13
Singh, Inderjit, 364–66
Spiegel, Mark M., 218–22
Squire, Lyn, 364–66
Srinivasan, T. N., 61–63, 442–45
Stern, Nicholas, 426–30
Strauss, John, 364–66
Summers, Lawrence, 147–53
Tidrick, Gene M., 307–11
Timmer, C. Peter, 347–49
Todaro, Michael P., 300–301
Vishny, Robert W., 111–13
Wai, U Tun, 129–32
Warner, Andrew M., 161–67
Wheeler, David, 544–53
Zejan, Mario, 126–28
INDEX

Acquired immune deficiency syndrome (AIDS), 257, 260
Adverse selection effect, 362
Afghanistan, 88, 91, 263, 536
Africa, 104. See also East Africa; North Africa; South Africa; Sub-Saharan Africa; West Africa; agriculture and, 97, 100, 333; divergence and, 115; economic environment in, 430; economic growth in, 84–85, 86–87, 89, 91, 92, 94; education in, 219, 225; environment and, 526, 528; health in, 258; industrialization and, 98, 99, 451–52; population of, 244; poverty in, 18; rural–urban migration in, 293, 294; state intervention in agricultural markets, 450–55; typology of development in, 170–74; unemployment in, 310; women in, 274, 275, 276, 281
Agency for Marginal Farmers and Agricultural Labour (MFAL), 274, 275, 276, 281
Agricultural household models, 331, 364–66
Agricultural productivity: comparative advantage, economic growth and, 107–9; factorial terms of trade and, 99–101; in Lewis model of world economy, 104–6; soil, water and, 522–23; strategies for increasing, 343
Ahuwalia, Montek, 209
Air quality, 521–22, 525
AK model, 120, 121, 123–25, 151, 178
Algeria, 86, 87
Alliance for Progress, 54
Amakudari, 481
Amazon Basin, 532
Argentina, 99, 406; agriculture and, 108; economic development in, 52; economic growth in, 86, 92, 94, 473; economic reforms in, 58; industrialization and, 98, 182, 183; poverty in, 55; trade and, 192, 202
Asia, 2, 104. See also East Asia; South Asia; Southeast Asia; Sub-Saharan Africa; Tibet; Tibet Autonomous Region
Association of Southeast Asian Nations (ASEAN), 43
Australia, 88, 99, 101, 105, 183
Austria, 65; economic growth in, 85, 86, 91, 92, 93, 94; education in, 429; environment and, 526; industrialization and, 99; interest rates in, 129, 134; population of, 242; rural–urban migration in, 294; women in, 271, 272–73, 274, 275, 276, 283, 284
Assassinations, 458, 540
Association of Southeast Asian Nations (ASEAN), 43
Australia, 88, 99, 101, 105, 183
Automobile industry, 202, 500–501
Autonomy. See Embedded autonomy; State autonomy
Backwash, 98
Bahamas, 297
Bahrain, 166
Balanced growth, 69–70
Bangladesh: economic growth in, 88; family planning programs in, 247; famine in, 335; foreign direct investment and, 210; Grameen Bank of, 215, 285–88; infrastructure of, 429; pollution abatement in, 544–45, 548–51; population in, 244, 245; poverty in, 18; technology transfer and, 204; women in, 271, 278, 284; women’s education in, 269
Bangladesh Chemical Industries Corporation (BCIC), 548
Banks, 139; central, 46, 142, 502; in East Asia, 36, 37, 44, 45; financial development and, 142; in India, 61; interest rates in, 129, 131, 132
BAPEDAL, 547
Barbados, 297
Bolivia, 144; education in, 237, 240; export subsidies and, 495, 503, 505; poverty in, 18; women in, 276; women’s education in, 264
Botswana, 65; economic growth in, 147, 152; ethnic diversity in, 463; political system of, 406; trade and, 156; women in, 275; women’s education in, 263, 268
Branco, Castello, 417
Brazil, 5, 6; deforestation in, 536; economic development in, 52; economic growth in, 54, 83, 84, 86, 91, 92, 93, 94; economic reforms in, 58, 60; education in, 230, 231, 232, 239, 419; environment and, 527, 528, 531; export subsidies and, 495, 499–501; health in, 427; income distribution in, 56, 378, 417–20; industrialization and, 98, 99; poverty in, 36, 55; state intervention in, 488–91, 493, 494; trade and, 189, 192, 202; women in, 273, 276
Bribery, 438, 461, 509
Brundtland Report, 555
Candies, 391
Africa, 65–68; typology of, 170–74; underemployment and, 395–99; unlimited labor supply and, 297–99
Economic environment, 429–30
Economic growth: agricultural productivity, comparative advantage and, 107–9; agriculture and, 81, 82, 83–84, 342–43; cross-country studies of, 141–45, 458–60; in East Asia, 36–41, 147, 152; education and, 216–17; environment and, 524–26; extensive, 80–85; financial development and, 138–40, 141–46; fixed investment and, 126–28; functional approach to, 40–41; income distribution and, 391–93, 401–3, 409–16; income inequality and, 382–86; industrialization and, 81, 82, 183–84; institutional indicators and, 471–75; intensive, 80, 471–75; institutional indicators and, 471–75; international comparative productivity, 111
Elasticity of demand, 107–8, 109, 110
Electronic Research and Service Organization (ERSO), 199
El Salvador, 52
Embedded autonomy, 478, 480, 482–83, 486–88, 490, 491, 493, 494
Employment. See also Labor force; Underemployment; Unemployment: in India, 448; in rural sector, 356–58
Enclosure, 532
Endogenous growth theory, 4, 75–76, 120, 121, 218; two-sector model of, 107–9
Endogenous politicians, 443
Endowment ratio, 15–16
Engel’s law, 78, 109
England, 97, 138, 244–45.
See also Great Britain/United Kingdom; environment and, 531, 532; industrialization and, 111
Environment, 517–59; balance sheet of, 35; economic development and, 520–29; Kuznets curve for, 517, 529–30; sustainable development and, 519, 554–59; trade and, 518, 531–34
Environmental Protection Agency (EPA), 529, 547, 548
Ethiopia, 88, 115, 335
Ethnic diversity, 423–24, 456–58, 460–66; bureaucracy and, 514; concepts and country examples, 460–63; measuring, 463
Europe, 88. See also Central Europe; Eastern Europe; Southern Europe; Western Europe; agriculture and, 99–100; divergence and, 114; education in, 225; environment and, 528; trade and, 202; women in, 283
Exchange-rate deviation index, 6, 12
Exchange rates, 43–44, 45, 46, 54
Exploitation hypothesis, 354–55, 361
Export crops, 450–51
Export processing zones (EPZs), 50, 165, 210
Export promotion: direct, 192; import substitution versus, 187–88
Exports, 180, 184–85; China and, 48, 50, 51; East Asia and, 36, 37, 46, 47; economic growth and, 87–88, 90, 93–94; fictitious, 503, 504; as first trade move, 102–3; foreign direct investment and, 210; India and, 61, 62; industrialization and, 183–84; Korea and, 105; Latin America and, 53; natural resources and, 162; primary products in, 155–56, 159–60; Saharan Africa and, 65, 68; Taiwan and, 105
Export subsidies, 424, 495–507; failures in, 502–3; intermediate cases, 503–6; successes in, 496–501
Export substitution: primary, 171, 173; secondary, 171–72, 173
Expropriation risk, 471, 472, 473–74
Extensive growth, 80–85
Externalities, 259, 336
Extinction, 523–24
Factorial terms of trade, 99–101
Factor prices, 175, 176, 178
Factor proportions explanations, 17
Factors of production, 173–74
Family distribution of income (FID), 409, 415–16
Family income, 244
Family planning programs, 36, 242, 246–47, 345, 348
Family size, 241
Famine, 335
Fertility rates, 242, 243, 244, 283. See also Birth rates; economic growth and, 82, 83; education and, 226; family planning programs and, 246–47; infant mortality and, 245–46; nutrition and, 255
Fertilizer plants, 544, 548–49
Fictitious exports, 503, 504
Financial development, 138–40, 141–46
Financial liberalization, 133–37
Five-Year Plan, 431
Fixed investment, 126–28
Fixed-rate tenancy, 357, 358
Food and Agriculture Organization (FAO), 535
Food crops, 451
Food prices, 254–55
Food supply, 82–84, 88–89, 91
Foreign direct investment (FDI), 90, 102, 157–58; benefits of, 209–10; China and, 50–51; East Asia and, 39, 44; Latin America and, 53, 58; technology transfer and, 209–10
Formal sector, 313, 317, 319; mobility from informal sector to, 323–26; relation between informal sector and, 314–15, 321
Four Tigers, 3, 36. See also Hong Kong; Korea; Singapore; Taiwan
France, 90, 97, 138, 283
Franc Zone, 65
Free-rider problem, 168, 442, 443, 445
Freighters, 97
Full income, 365
Functional approach to economic growth, 40–41
Gabon, 166
Gambit, 481
Gandhi, Indira, 62
Gender. See Women
Gender-aware analysis, 288
General Agreement on Tariffs and Trade (GATT), 192, 500
General Motors, 182
Genuine savings, 559
Germany, 2, 97; environment and, 532; income distribution in, 375–76, 382–83, 386; interest rates in, 124
Ghana: divergence and, 115; economic growth in, 86, 87, 94; environment and, 533–34; ethnic diversity in, 462–63; health in, 257; import substitution and, 180; industrialization and, 99; state intervention in agricultural markets, 453, 454, 455; trade and, 189; women in, 273
Gini coefficient, 376, 380, 392, 395, 401–2, 416, 417
Gini indices, 56, 57
Global warming, 521
Gold Coast, 298
Goldemberg (firm), 502–3
Goldemberg, 502–3
Golden age, 515–17
Goldemberg, 502–3
Government. See Policies; State
Government failure, 336, 348, 422–24
Granger-causes growth, 120, 126
Great Bengal Famine, 335
Great Britain/United Kingdom, 90, 97, 98, 100, 101, 105, 107, 168, 170. See also England; divergence and, 115; environment and, 531; import substitution and, 184; income distribution in, 375–76, 382–83, 384, 386, 419; industrialization and, 180; Jamaican emigration to, 307; women in, 283, 298
Great Depression, 52, 87, 170
Greece, 191
Greenhouse warming, 517, 524
Green national accounting, 559
Green Revolution, 109, 272–73, 330, 333, 340, 345–46, 430
Gross domestic product (GDP): absorption in form of services and commodities, 14; agriculture and, 368; in AK model, 123, 125; bureaucracy and, 508; calculating a lower bound for, 114–16; of China, 48, 49; of East Asia, 36; economic growth and, 84–95; education and, 234, 235; environment and, 523; exchange-rate deviation in relation to, 6, 12; fixed investment and, 126; of India, 61, 62, 63; interest rates and, 134–36; investment and, 406, 407; of Latin America, 52, 53; natural resources and, 161, 162, 163–65
Gross national product (GNP), 2; as development measure, 5–7; in East Asia, 37; economic growth and, 92, 93, 94; education and, 237, 239; health care and, 258; inverted-U hypothesis and, 387, 389; women’s education and, 263
Growth accounting, 219–22
Growth theory, 154–56
Growth versus, 187–88; first stage of, 189, 499; interest rates and, 12; fixed investment and, 126; of India, 61, 62, 63; interest rates and, 134–36; investment and, 406, 407; of Latin America, 52, 53; natural resources and, 161, 162, 163–65
Human development: balance sheet of, 35; income and, 23
Human Development Index (HDI), 2, 7, 21–22, 24–29, 119, 123
Human resources, 214–15, 249–62, 344, 348; education and, 221–22; environment and, 524–26; health indicators in, 11; development in, 249–53; policies on, 257–59
Heart disease, 433–36
Heart disease, 434–36, 437–39, 440–41
Height, 305–13
Headcount index, 19
Health insurance, 258, 259
High-incomes economies: basic indicators in, 11; development measures in, 5; Gini coefficient in, 392; health indicators in, 252–53; population and labor force in, 34; self-employment and unpaid family workers in, 295–96
High-performing East Asian Economies (HPAEs), 3, 36–41, 237–39. See also Hong Kong; Indonesia; Korea; Malaysia; Singapore; Taiwan; Thailand
Historical perspective, 77–118; on division of the world, 97–99; on factorial terms of trade, 99–101; on spread of economic growth, 80–96
Honduras, 55, 276, 473
Hong Kong, 3, 51, 460, 466; economic crisis in, 43; economic development in, 52; economic environment in, 430; economic growth in, 36, 39, 94, 147; education in, 237; family planning programs in, 246; import substitution and, 184; industrialization and, 180; natural resources and, 164; trade and, 184; women’s education in, 270
Hot Oil Act, 532
Household model, 243, 244
Household portfolio, 396, 399
Household production, 80–81
Household savings, 35; income and, 23
Human capital: creating, 237–39; economic development and, 218–22; knowledge acquisition, 207–8; provision, 207–8
Human development: balance sheet of, 35; income and, 23
Human Development Index (HDI), 2, 7, 21–22, 24–29, 119, 123
Human resources, 213–88. See also Education; Health; Nutrition; Population; Women
Hungary, 182–83, 184, 185, 529
Hunger, 335
Hyundai, 196–98
Ibadan, 81–82
Illiteracy, 7, 68, 240. See also Literacy
Imperfect information, 336, 353, 355, 357–58, 359–60, 361
Imports, 54, 89, 90, 157
Import-substituting industrialization, 156, 168–69
Import substitution, 92–93, 170, 185, 189, 499; export promotion versus, 187–88; first stage of, 180–81; India and, 61, 181; Latin America and, 52, 53, 54, 181, 185; primary, 171, 173; secondary, 171–72; 173; second stage of, 181–83, 184, 186, 202; Sub-Saharan Africa and, 67
INBIO, 532
Income: balance sheet of, 35; deforestation and, 538–39; education and, 221–22; environment and, 524–26; family, 244; family distribution of, 409, 415–16; full, 365; human development and, 23; in India, 61, 448–49; per capita. See Per capita income; secular levels of, 382, 383, 384, 386; subsistence, 115
subsidiaries and, 495, 505; health in, 429; informal sector in, 313–15, 316–17, 318; labor migration and unemployment in, 300–301; poverty in, 18; state intervention in agricultural markets, 451; typology of development in, 170–74; women in, 275, 276, 277, 282
Kenya: administration, 462
Korea, 3, 102, 466, 480; economic crisis in, 42, 44, 45, 47; economic development in, 52; economic environment in, 430; economic growth in, 36, 39, 41, 87, 89, 91, 93, 94; education in, 225, 237; export subsidies and, 495, 496–99, 502–3; family planning programs in, 246; foreign direct investment and, 210; income distribution in, 403; interest rates in, 124; natural resources and, 164, 166; state intervention in, 157, 195–201, 482–84, 485, 487; technology and, 204, 206–8; trade and, 184, 185, 188, 192; women’s education in, 268
Korup National Park, 532
Kravis-Heston-Summers productivity explanation, 13–15
Krueger’s trade model, 175–78, 179
Kuomintang (KMT), 484–85, 486
Kuwait, 166
Kuznets, Simon, 375–76, 387, 391, 395
Kuznets environmental curve, 517, 529–30
Laissez-faire, 64
Land ownership, 401–3
Land reform, 330, 332, 344–45, 346, 403, 409–12, 446
Land use model, 539
Latin America, 1, 3, 4, 104; agriculture and, 97, 100; economic and social indicators in, 56; economic development: 1950–1980, 52–57; economic growth in, 52–54, 80, 84, 86, 89, 90, 93, 94; economic reforms in, 58–60; education in, 219, 222, 238, 429; environment and, 526, 533; health in, 258; import substitution in, 52, 53, 54, 181, 185; income distribution in, 54–57, 403, 407; income inequality in, 390, 397; industrialization and, 98, 99, 182; interest rates in, 129, 134, 137; poverty in, 19; rural-urban migration in, 293, 294; Sub-Saharan Africa compared with, 456, 458, 459, 464; trade and, 53, 202; typology of development, 170–74; women in, 271, 272, 275, 276, 277; women’s education in, 263, 266
Law for Dealing with Illicit Wealth, 497
Law of Large Numbers, 396
Law of Large Numbers, 396
Law of Large Numbers, 396
Law of one price, 5
Lead, 521–22
Learning-by-doing, 75, 78, 161, 168, 211, 343
Lerner diagrammatic technique, 13
Lesotho, 529
Lewis model of underemployment, 291, 302–6
Lewis model of underemployment, 291, 302–6
Lewis model of world economy, 104–6
Libya, 263
Life expectancy, 7; in China, 427; divergence and, 115; health expenditures and, 262; in India, 61; in Latin America, 56; poverty and, 18, 19; in Sub-Saharan Africa, 456; of women, 283, 284
Literacy, 56, 218, 263, 266, 277, 284. See also Illiteracy
Living standards, protection of, 429
Lobbying, 444
Local Manufacturers (Export Compensation) Act, 502
Log variance, 376, 394, 398, 399
Lorenz curve, 379–80
Low- and middle-income economies: basic indicators in, 11; health indicators in, 252; population and labor force in, 34
Lower-middle-income economies: basic indicators in, 9–10; health indicators in, 250–51; income inequality in, 397; self-employment and unpaid family workers in, 295; women’s education in, 265, 267
Low-income economies: basic indicators in, 8–9; development measures in, 5; Gini coefficient in, 392; health indicators in, 249–50; health systems in, 258; income inequality in, 389; population and labor force in, 31–32; self-employment and unpaid family workers in, 295; women’s earnings in, 276–77; women’s education in, 263–64, 265, 267
Lucky-Goldstar, 196–98
Ludhiana, 318
Macroeconomics: in Caribbean, 59; in East Asia, 43–44; education and, 225; health and, 254, 255; in informal sector, 316; in Latin America, 52, 59, 60
Madagascar, 529
Mahalanobis Committee on Distribution of Income and Levels of Living, 61
Maharastra, 275
Mahaweli scheme, 528
Malawi, 267–68, 273, 282
Malaya, 86
Malaysia, 3; economic crisis in, 42, 44, 47; economic growth in, 36, 39, 40, 89, 91, 94; informal sector in, 319–21; natural resources and, 165; population in, 245; women in, 271, 273, 275; women’s education in, 268–69
Malthus, Thomas, 73
Mannmade Fibers Association, 485
Manufacturing. See also Industrialization: agriculture and, 333–34; economic growth and, 89–90, 92–93; in Krueger’s trade model, 175–78
Mao Zedong, 48, 50
Market failure, 426; agriculture and, 336, 348, 356; environment and, 524; import-substituting industrialization and, 168–69; state intervention and, 431
Market policy approach to agriculture, 348
Markets, 432–33; agricultural, 336; China’s move to, 48–51; commodity, 450–51; health care, 259–60; population and, 244–45; size of, 111–13
Marshallian inefficiency, 357
Marxist theory, 298, 442, 445, 477
Maternal mortality, 257, 258
Mauritania, 273
Mauritius, 65, 165, 529
McKenzie-Chipman diversification cone, 15
Merck and Company, 532
Mexico: bureaucracy in, 482; economic environment in, 430; economic growth in, 86, 89, 91, 92, 93, 94; economic reforms in, 58; environment and, 533; foreign direct investment and, 157–58, 210; political system of, 404; poverty in, 18, 55; trade and, 202; typology of development, 170–74; women in, 273
Microeconomics: education and, 223–25; health and, 254; in Latin America, 52; in rural sector, 330, 352–67
Middle class, 377, 407
Middle East, 2; economic growth in, 80; environment and, 524; natural resources and, 165; poverty in, 19; women in, 272; women’s education in, 264, 266
INDEX 575

Mortality rates, 2, 82–83, 298; child, Morocco, 87; bureaucracy in, 514; Moi, Arap, 453, 462
Moibutu Sese Seko, Joseph, 479, 480
Ministry of International Trade and Industry (MITI), 480–81, 487, 491
Ministry of Trade and Industry (MTI), 483, 485
Mobutu Sese Seko, Joseph, 479, 480
Moi, Arap, 453, 462
Monopolies and Restrictive Trade Practices (MRTP) Act, 62
Morocco, 87; bureaucracy in, 514; environment and, 533; foreign direct investment and, 157, 209–10; poverty in, 18
Mortality rates, 2, 82–83, 298; child, 19, 82, 257, 260; infant. See Infant mortality; maternal, 257, 283
Mozambique, 65, 88, 115
Multinational enterprises (MNEs), 209–10
Murphy-Shleifer-Vishny model, 113
Myrdal, Gunnar, 496
National Development Bank (BNDE), 489
Nationalization potential, 472
National Renewal Fund, 62
National Resources Commission (NRC), 484
Natural capital stock, 519, 554, 555–58, 559
Natural habitats, 523–24
Natural resources, 156, 161–67, 173
Neoclassical economics, 152, 423, 477; development economics and, 70, 71, 73; East Asian economic growth and, 39; income inequality and, 387; state, economic development and, 442–45
Neoutilitarian economics, 476, 477
Nepal, 88, 91, 95, 263, 264, 268, 275, 526
Netherlands, 107, 115
New institutional economics, 359–60
New Zealand, 99, 101, 509–10, 526
NGPF, 549
Nicaragua, 52, 230
Nigeria, 65, 450, 460; bureaucracy in, 514; economic growth in, 86, 87; environment and, 529; ethnic diversity in, 464; women in, 273
Nkrumah, Kwame, 462
Nongovernmental organizations (NGOs), 258, 259
North Africa, 1; economic growth in, 80; poverty in, 19; women in, 272, 275, 283, 284; women’s education in, 264, 266
North America, 97, 98, 225, 283
Nutrition, 214–15, 254–56, 344, 348; balance sheet of, 35; famine and hunger, 335; policies on, 427–29; women’s earnings and, 277
Off-shore companies, 44, 45
Oil and petroleum, 7, 50, 54, 165, 166
Oil and gas, 50, 54, 165
Outward-oriented industrial development, 184–86
Ozal, Turgut, 503, 504
Pakistan: economic growth in, 85, 88, 91, 92, 93; education in, 237; family planning programs in, 246; women in, 283
Panama, 273
Park Chung Hee, 197, 482–83, 484, 497, 498, 499
Paternalism, 426
Per capita income, 3. See also Gross domestic product (GDP); Gross national product (GNP); in AK model, 123–25; as development measure, 5–7; divergence and, 114–18
Peru: economic growth in, 89, 91; economic reforms in, 58; health in, 258–59; poverty in, 18; women in, 276, 278
Petite bourgeoisie, 423, 449
Petroleum, 7, 50, 54
Petrobas, 491
Philippines, 3; agriculture and, 414; deforestation in, 536; economic crisis in, 44; economic growth in, 39, 86, 90, 91, 92, 93; environment and, 523; family planning programs in, 247; industrialization and, 98; pollution abatement in, 545, 546–47; trade reform in, 192; women in, 273; women’s education in, 263, 268
Physical Quality of Life Index (PQLI), 7
Plantations, 86, 100, 180, 271
Pluralist theory, 453–54
Poland, 527, 529
Policy coherence, 496
Political stability/instability: deforestation and, 539–41; income distribution, investment and, 404–8; institutional indicators of, 472, 473, 474–75; in Sub-Saharan Africa, 458, 464–66
Pollution abatement, 544–53
Polonoreste projects, 528
Population, 2, 214, 241–48; agriculture and, 332, 333; deforestation and, 536–38, 541–42; of East Asia, 36; economic approaches to, 242–48; economic growth and, 82–84, 88–89, 91; environment and, 521; labor force and, 31–34; size of, 241
POSCO, 200
Poverty: balance sheet of, 35; burden of, 18–35; capabilities and entitlements in, 30; decline in, 36; environment and, 521; extent of, 19–20; health and, 259; income inequality, economic development and, 387–90; in India, 18, 36, 61; in Latin America, 54–57; women and, 18, 215, 275–79
Poverty gap, 19
Poverty line, 6, 18, 19, 54–55, 115
Prebisch, Raul, 52
Predation, 476, 479–80, 481, 487, 491
Price controls, 451
Price distortions, 36–37, 526
Prices: agricultural, 331, 337–38, 366–67, 368–69, 448; factor, 175, 176, 178; food, 254–55; in India, 448–449; service, 13–17
Primary export substitution (PES), 171, 173
Primary import substitution (PIS), 171, 173
Primary products, 155–56
Primary school education, 13–17
Primary sector surplus, 180
Principle-agent approach, 508, 509
Privatization, 96
Probabilistic migration model, 292, 323–27
INDEX

Producer-driven chains, 204
Productivity. See also Agricultural productivity: factor proportions explanations, 17; growth accounting with human capital stocks in, 220–22; Kravis-Heston-Summers explanation for, 13–15
Profit effect, 366
Programa de Integração Nacional (PIN), 418
Programa de Integração Social, 418
PROKASIH, 545
Property rights, 442, 444, 518, 526, 527, 532, 535, 539–41
Russia, 383
Public choice school, 443
Puerto Rico, 307, 310
Pulp and paper plants, 544, 549–51
Puerto Rico, 307, 310
Punjab, 523
Putting-out system, 84, 85, 271
Quantitative restrictions, 157, 188–90, 191
Railroads, 85–86, 90, 97, 98
Rao-Mannoharan Singh, 62–63
Rationality hypothesis, 354, 355
RCA, 199
Regression analysis, 458–60, 463–64
Regression tables, reading, 561–66
Rent control, 448–49
Rent seeking, 422–24, 427, 444, 476; competitive, 437–39; corruption and, 440–41; defined, 434–36; in Harris-Todaro model, 440; political economy of, 437–40; quantitative importance of, 438–39
Rhee Syngman, 482, 484, 485, 497, 499
Ricardo, David, 73, 298
Risk, 337–38, 478
Risk aversion, 352, 357, 358
RKF assumptions, 395–96
Rule of law, 471, 483–49
Rural sector. See also Agriculture: contractual arrangements in, 330, 356–58; credit in, 361–63, 447; informal, 314–15, 316–17; investment in, 332, 448; microeconomics of, 330, 352–67; new development economics and, 352–55; new institutional economics and development theory in, 359–60; recent tenancy models in, 356–58; reform in, 49–50; strategies for welfare improvement in, 343–45
Rural-urban divide, 373–74
Rural-urban migration, 289–327; demographic reappraisal of urban growth and, 293–94; econometric studies of, 312; informal sector role in, 292, 323–27; model of urban unemployment and, 300–301; unlimited labor supply and, 297–99
Russia, 139
Sanitation, 521
Saudi Arabia, 165, 166
Savings: in AK model. See AK model; in East Asia, 36, 42; as engine of growth, 119–22; financial liberalization and, 133–37; genuine, 559; in India, 63; women and, 280–81
Savings clubs, 280
Saxony, 383
Schulz, Theodore, 300
Secondary export substitution (SES), 171–72, 173
Secondary import substitution (SIS), 171–72, 173
Secondary school education, 237–39, 265, 266
Second best solutions, 337
Second Indian Plan, 371
Secular levels of income, 382, 383, 384, 386
Seemingly-unrelated-regression (SUR) technique, 234
Self-employment, 295–96, 313, 318, 319, 397
Semi-democracies, 404
Service prices, 13–17
Shaman Pharmaceuticals, 532
Shocks, 147–53
Sierra Leone, 254
Singapore, 2, 3; economic crisis in, 265, 266
Second best solutions, 337
Second Indian Plan, 371
Secular levels of income, 382, 383, 384, 386
Seemingly-unrelated-regression (SUR) technique, 234
Self-employment, 295–96, 313, 318, 319, 397
Semi-democracies, 404
Service prices, 13–17
Shaman Pharmaceuticals, 532
Shocks, 147–53
Sierra Leone, 254
Singapore, 2, 3; economic crisis in, 43; economic development in, 52; economic environment in, 430; economic growth in, 36, 39, 40, 94, 456; education in, 237; environment and, 527; interest rates in, 124, 133; natural resources and, 164; technology and, 207; trade and, 184, 185; women in, 273
Sino-Japanese War, 86
Small Farmers Development Agency (SFDA), 447
Smith, Adam, 69, 72, 75, 98, 494
Social indicators, 56
Social insurance, 258
Soft states, 496
Sogosho shosha, 102
Soil quality, 522–23
Somalia, 115, 263
Somprasong Land, 46
South Africa, 97, 99, 273
South America, 345
South Asia: economic growth in, 91; health in, 258; import substitution and, 181; industrialization and, 182; pollution abatement in, 544–53; population of, 244; poverty in, 18, 19; women’s education in, 263, 266
Southeast Asia: economic growth in, 36, 92; pollution abatement in, 544–53; women in, 271
Southern Europe, 98, 99
Southern Rhodesia. See Zimbabwe (Southern Rhodesia)
Soviet Union, 2, 181, 526
Spanish-American War, 86
SPPM, 549
Sri Lanka: development measures in, 7; economic growth in, 89, 91, 93; environment and, 528; health in, 254, 427–29; women in, 271, 275, 276
State autonomy, 496
State intervention, 432–33. See also Policies; in African agricultural markets, 450–55; arguments for, 426; in health care, 259–60; in Korea, 157, 195–201, 482–84, 485, 487; market failure and, 431; neoclassical economics and, 442–45; as problem and solution, 476–94; in Taiwan, 157, 195–201, 482, 484–86, 487
State-owned enterprises (SOEs), 96, 485, 493, 551
Strong states, 496
Strong sustainability, 555, 559
Structuralist analysis, 70
Structural transformation, 478–79, 489–90
Sub-Saharan Africa, 2, 3, 4, 422–24; economic development in, 65–68; economic growth in, 80, 456–70; education in, 65, 68, 237, 238, 429; environment and, 523, 527; ethnic diversity in, 423–24, 456–58, 460–66; income distribution in, 407; personal rule effects in, 67; poverty in, 18, 19; women in, 271, 272, 283, 284; women’s education in, 263, 266, 269
Subsistence income, 115
Sudan, 65, 88, 95, 263, 273
Suez Canal, 86
Sukarno administration, 88
Sukhatme-Srinivasan-Seckler-Payne hypothesis, 255
Sulfur dioxide, 522
Sun Yat Sen, 484
Supply elasticity of agricultural production, 366–67
Supply-leading phenomenon, 139–40
Suspended particulate matter, 521
Sustainable development, 519, 554–59
poverty and, 18, 215, 275–79; role models for, 281; savings and, 280–81
Women-headed households, 215, 273, 275
Women’s education, 263–70, 277, 279, 280; benefits at work and home, 269–70; costs, benefits and gender differentials, 264–67; economic impact of, 225–26; financial, opportunity, and psychic costs of, 267–69; health and, 254, 255; labor force participation, wages and, 243
Wood pulp plants, 544, 548–49
World Conservation Strategy, 555

Yunus, Muhammad, 285
Zaire, 65, 88, 95, 263, 479–80
Zambia, 87, 275
Zimbabwe (Southern Rhodesia), 86, 87, 258
In the economic study of the public sector, economic and social development is the process by which the economic well-being and quality of life of a nation, region, or local community are improved according to targeted goals and objectives. The term has been used frequently in the 20th and 21st centuries, but the concept has existed in the West for far longer. "Modernization", "Westernization", and especially "industrialization" are other terms often used while discussing economic development.