



## Bibliographical Note

**T**HIS REPORT HAS DRAWN on a wide range of World Bank documents and on numerous outside sources. World Bank sources include ongoing research as well as country economic, sector, and project work. These and other sources are listed alphabetically by author or organization in two groups: background papers commissioned for this Report and a selected bibliography. The background papers, some of which will be made available through the Policy Research Working Paper series, and the rest through the *World Development Report* office, synthesize relevant literature and Bank work. The views they express are not necessarily those of the World Bank or of this Report.

In addition to the principal sources listed, many persons, both inside and outside the Bank, provided valuable advice and guidance. Special thanks are owed to the following: Pranab Bardhan, Gregory Ingram, Jean-Jacques Laffont, Dilip Mookherjee, Jonathan Morduch, Christopher Udry, and John Williamson. Special thanks are also owed to the executive directors of the Bank for their invaluable comments.

Additional comments and suggestions were provided by James Adams, Kulsum Ahmed, Mir A. Altaf, Katherine Bain, Rema Balasundram, Michael Baxter, Tamara Belt, Paul Bermingham, Natasha Beschomer, Deepak Bhattasali, Tyler Biggs, James Bond, François Bourguignon, Derek Byerlee, William Byrd, Ajay Chhibber, John Daly, Paul David, Asli Demirgüç-Kunt, Shantayanan Devarajan, Donna Dowsett-Coirolo, Jacquelin Dubow, Gunnar Eskeland, Gershon Feder, Osvaldo Feinstein, Habib Fetini, Carsten Fink, Kenneth Flamm, Emmanuel Forestier, Jason Furman, Alan Gelb, Christiaan Grootaert, Sanjeev Gupta,

Jeffrey Hammer, Ian G. Heggie, John Heilbrunn, Peter Heller, Lauritz Holm-Nielsen, Zahid Hussain, Carollyne Hutter, Jonathan Isham, Hannan Jacoby, Ian Johnson, Christine Jones, Daoud L. Khairallah, Nalin Kishore, Mathieu Credo Koumoin, Michael Kremmer, Kathie Krumm, Pierre Landell-Mills, Carol Lee, Fred Levy, Katherine Marshall, Jean Roger Mercier, Pradeep Mitra, Raja Mitra, Joel Mokyr, Dilip Mookherjee, Mohamed Muhsin, Mustapha Kamel Nabli, Vikram Nehru, Richard Nelson, Richard Newfarmer, Maris O'Rourke, Mead Over, Howard Pack, John Page, Phil Pardy, Guillermo Perry, Guy Pfeffermann, Boris Pleskovic, Carl Pray, Danny Quah, Vijaya Ramachandaram, Dani Rodrik, Alexander Rondos, Mark Rosenzweig, Alan Ruby, Kamal Saggi, Joanne Salop, Marcelo Selowsky, Ismail Serageldin, Paul Siegelbaum, Peter Smith, Anil Srivastava, Anna Stahmer, Inder Sud, Hong Tan, Vinod Thomas, Brigida Tuason, Dina Umali-Deininger, Rudolf V. Van Puymbroeck, Keshav Varma, Walter Vergara, Robert Watson, Björn Wellenius, George West, Stuart Whitehead, John Williamson, L. Colin Xu, and Willem Zijp. Adrienne Brusselars, Meta de Coquereaumont, Wendy Guyette, Glen Guymon, Paul Holtz, Daphne Levitas, Terra Lynch, Heidi Manley, Laurel Morais, and Alison Smith, all with Communications Development of Washington, D.C., provided valuable editorial advice. Other valuable assistance was also provided by Carol Best, Emily Khine, Elizabete de Lima, Michelle Mason, and George Moore.

A wide range of consultations was undertaken for the Report. We particularly wish to thank the following organizations and individuals for arranging consultation meetings: the Canadian Government and the Economic De-

velopment Institute of the World Bank for consultation during the Global Knowledge 97 conference in Toronto; the Danish Ministry of Foreign Affairs; the Finnish Ministry of Foreign Affairs; the German Ministry of Cooperation; the National Council for Economic Research, New Delhi; Vivek Bharati in the World Bank Resident Mission, New Delhi; the Organisation for Economic Cooperation and Development, Paris; Austin Hu in the Resident Mission, Beijing; Andrew Rogerson; Keiko Itoh in the Resident Mission, London; the Overseas Development Institute; the Institute of Innovation Research; Mika Iwasaki in the Resident Mission, Tokyo. We would also like to acknowledge generous support from the trust funds of Denmark, Norway, and Switzerland to finance background studies for the report.

We wish to thank the numerous participants in the consultations—in *Beijing*: Jing Chen, Xiaozhu Chen, Xianhong Deng, Zhenglai Deng, Xuan Feng, Austin Hu, Kathie Krumm, Xiaomin Lai, Zhang Lansong, Hanlin Li, Jingwen Li, Shantong Li, Wangrong Li, Xiaofu Li, Dexiu Ma, Yang Ma, Weifang Min, Xiaoguang Ouyang, Hong Sheng, Jikang Wang, Jinkang Wu, Haungzhong Xie, Huixing Xu, Peizeng Xuan, Xiaozhun Yi, Yongding Yu, Weiying Zhang, Xiangchen Zhang, Dihua Zhao; in *Berlin*: K. Y. Amoako, Ela Bhatt, Lajos Bokros, H. E. Carlos Bresser-Pereira, Heinz Buhler, Harald Fuhr, Cecilia Gallardo de Cano, Tasso Gereissati, Heba Handoussa, Nguyen Thi Hang, Ingomar Hauchler, Jerzy Hausner, Alan Hirsch, Gudrun Kochendörfer-Lucius, Klaus König, Armin Laschet, Henrietta Mensa-Bonsu, Joerg Meyer-Stamer, Solita Monsod, Wolf Preuss, Oleg D. Protsenko, Wolfgang Schmitt, Carl-Dieter Spranger, Claudia M. Von Monbart; in *Copenhagen*: Poul Engberg-Pedersen, Jens Krummholt, Frode Neergaard, Klaus Winkel; in *Hel-sinki*: Marja Erola, Kaarina Rautal; in *London*: Geoff Barnard, Heather Budge-Reid, Charles Clift, Ben Fine, Caroline Harper, Robert Lamb, Rosemary McGee, Andy Norton, Andrew Scott, Paul Spray, Koy Thompson, Patrick Watt, Alex Wilks; in *New Delhi*: Andre Beteille, Vivek Bharati, Vinayak Chatterji, Mrinal Datta Chowhary, Bibek Debroy, Ashok Desai, Ashok Ganguly, James Hanson, P. V. Indiresan, L. C. Jain, Edwin Lim, Rakesh Mohan, Deepak Nayyar, R. S. Paroda, R. K. Pachauri, V. S. Raju, S. Ramchandran, Jairam Ramesh, C. N. R. Rao, N. C. Saxena, Pronab Sen, N. Seshagiri, Harshavardhan Singh, Parvinder Singh, S. Sundareshan, Suresh Tendulkar, Mark Tully; in *New York*: Nancy Barry, Joseph Foubmi, Morten Giersing, Marjorie Newman-Williams, Kenneth Prewitt; in *Ottawa*: Brent Herbert-Copley, Caroline Pestieau; in *Paris*: Graham Vickery, Wing-Yin Yu; in *Toronto*: the 70 NGO and government participants in the special breakout session on the Report; in *Tokyo*: Dong-Se Cha, Hong-Tack Chun, Akira Goto,

Tomoko Hirai, Farrukh Iqbal, Mika Iwasaki, Rumiko Kakishima, Young-Ki Lee, Hiroyuki Maeda, Masaki Omura, Sadao Nagaoka, Ikujiro Nonaka, Naoki Suzuki, Kazuo Takahashi, Hirotaka Takeuchi, Shujiro Urata; in *Washington, at a meeting with the Academic Advisory Group to the Report*: Paul David, Robert Evenson, Joseph Greenwald, Richard Nelson, Howard Pack, Vernon Ruttan, Luc Soete; at a meeting with the Knowledge Management Board of the World Bank: Roberto Chavez, Boris Courneade, Stephen Denning, Osvaldo Feinstein, Patrick Grasso, David Gray, Patty Hamsher, Nagy Hanna, Adnan Hassan, Patrice Mallet, Klaus Tilmes; at a meeting with the Private Sector Advisory Group to the Report: Debra Amidon, Robert Buckman, Marc Demarest, Neil Duffy, Leif Edvinsson, Peter Ewell, Peter Henschel, Robert Hiebeler, Dan Holtshouse, Cynthia Johnson, Bipin Junnarkar, Steven Kerr, Esko Kilpi, James Mingle, Carla O'Dell, Howard Pack, Edna Pasher, Paul Pederson, Alan Powell, Hubert St. Onge, Tom Stewart, Susan Stucky, Karl Erik Sveiby, Mike Thalacker, Rob Vander Spek, Vivienne Wee, Anders Wijkman, and Karl Wiig.

### Overview

The comparison of Korea and Ghana is based on data from Summers and Heston 1994 and World Bank 1993b. Data on the number of new varieties of rice and maize released by national research organizations are from Byerlee and Moya 1993 and López-Pereira and Morris 1994. Foster and Rosenzweig 1996 is the source of the finding that more-educated farmers adopted green revolution techniques more rapidly and that returns to education among farmers rose in those areas with the greatest potential gains from adoption of new varieties. The estimate of income loss to farmers due to slow adoption and inefficient use of high-yielding varieties is from Foster and Rosenzweig 1995. The southern Indian survey of the boost in the real incomes of small farmers when they did adopt new seeds is from the Rosenzweig background paper. The survey of incomes and nutrient intakes among farmers in southern India is reported in Hazell and others 1991. The Mookherjee background paper discusses Porto Alegre's public budgeting initiative. Other material in the Overview is documented in the bibliographical notes for other chapters.

### Chapter 1

The quotation from Thomas Jefferson is from David 1993. Reasons for the shifting relationship between income and infant mortality are based on the discussion of improving health standards in World Bank 1993c. The study of the effect of maternal education on infant mortality is Filmer and Pritchett 1997, which also shows mortality rates in 45 developing countries. Box 1.1 draws on information provided by Luis Saenz. Reference to the ef-

fect of smoke on children and women can be found in World Bank 1996. Figures on the effect of the level of education of the household head on household incomes and poverty rates in Vietnam come from World Bank 1995b.

The total factor productivity approach is described in Solow 1956. Box 1.2 is based on Young 1995, Kim and Lau 1992, Krugman 1994, Klenow and Rodriguez-Clare 1997b, and Stiglitz 1996. Studies of the contribution of education to growth in U.S. GDP per capita are from Denison 1985. The study of total factor productivity in 98 countries is Klenow and Rodriguez-Clare 1997b. The quotation from Alfred Marshall is from Marshall 1890. The two authors who pioneered the incorporation of purposeful investment in education, innovation, and adaptation of knowledge in growth models are Romer 1990 and Lucas 1988. Box 1.3 is based on World Bank staff calculations (see the Technical Note). One study of the effect of institutional quality and sound policy on economic growth is Olson, Sarna, and Swamy 1997. Figures on the growth of international trade between 1960 and 1995 are based on World Bank 1998d; figures on the proportion of that trade that is between multinationals and their affiliates are from World Bank 1997d.

Estimates of the proportion of GDP in major OECD countries that is based on the production and distribution of knowledge are made by OECD 1996b. Statistics on the number of patents issued worldwide are from the Braga, Fink, and Sepulveda background paper. Projections of average product cycles for the U.S. and Japanese automobile industries are from Wester 1993. The hypothetical example of the \$500 Boeing 767, illustrating the dramatic fall in costs and gains in performance of information technology, is from WHO 1988. The statistic on the growth in telephone traffic from 1975 to 1995 is from World Bank 1997d.

### Chapter 2

This chapter draws on Evenson and Westphal 1995. The study of productivity in 200 firms in Kenya is RPED 1998, which also contains the surveys in Ghana and Zimbabwe showing similar results. The section on acquiring global technical knowledge draws on Lall's background paper (b) and Dahlman 1994. The figure on average productivity in Kenya's spinning is from Pack 1987. The percentages of the world's R&D and of its scientific publications produced by the more industrialized nations are from UNESCO 1996 and European Commission 1994, respectively. The lesson from Japan on the value of importing is discussed in Nagaoka 1989. The change in the structure of international trade since the 1970s is discussed in the Lall background paper (b). Box 2.1 is based on Plaza and Sananikone 1997. The survey cited in that box is UNIDO 1995. The improvements made by Sudarshan Chemical Industries are discussed in Chemical Week 1994.

The statistic on multinationals' share of U.S. patents is from the Kumar background paper. On subcontracting by Intel's Malaysian plant see World Bank 1993b. The studies cited in Box 2.2 are Levine and Renelt 1992, Malhotra 1995, and World Bank 1993b. Notes on *maquiladoras* and their relative isolation from the rest of the Mexican economy were provided by Alpha Southwest Corporation.

The statistic on the growth of technology transfer payments is from IMF, various years. An account of the Korean firms' licensing negotiations is in Enos 1991. The effort by Japan's Ministry of International Trade and Industry to weaken the bargaining power of foreign licensors in the 1950s and 1960s is described in Nagaoka 1989. The story of U.S. knowledge sharing with Europeans under the Marshall Plan is told in Silberman and Weiss 1992. UNESCO 1997 provides data on numbers of students from developing countries who get their tertiary education abroad. Success stories among developing economies that have instituted programs to counter brain drain are presented in Dahlman and Sananikone 1990 and in Kim 1997. How Côte d'Ivoire diminished the incentive of its textile producers to move toward efficient production is described in Mytelka 1985. The account of Brazil's attempt to develop a national computer industry is in Dahlman 1993. Evidence that making subsidies contingent on export performance ensured the use of technology sophisticated enough for East Asian economies to compete in world markets is from Westphal 1990. Box 2.3 draws on Ray 1998. The different ways in which Japan, Korea, and Taiwan, China, emphasized a government role in promoting industry are discussed in World Bank 1993b. How Hong Kong (China) and Singapore followed more conventional outward policies with much less state intervention is discussed in World Bank 1993b and Dahlman 1994. For an early study of technology exports from developing countries see Dahlman and Sercovich 1984. Box 2.4 draws on the Braga, Fink, and Sepulveda background paper. Box 2.5 is based on Mansfield 1994 and 1995. The background paper by Braga, Fink, and Sepulveda discusses the cost of developing, testing, and marketing a new drug in the United States. Analysts who have found that IPR protection has a small positive impact on economic growth across countries are Mazzoleni and Nelson forthcoming and Mansfield 1994 and 1995. The figures on the increase in the number of developing countries to sign the Paris or Berne conventions on IPRs are from the World Intellectual Property Organization (WIPO) and are given in the Braga, Fink, and Sepulveda background paper. Box 2.6 is taken from the Braga, Fink, and Sepulveda background paper. The same paper explores new IPR challenges for developing countries in biotechnology and information technology and discusses the WIPO Copyright Treaty and the WIPO Performance and Phonograms Treaty.

The study of technology institutions and policies in China, Japan, Korea, Mexico, and Taiwan, China, is Ergas and others 1997. The figures for the proportion of GDP spent on R&D in developing countries compared with industrial countries is from the Lall background paper (b), which also describes the expansion of private firms into R&D in developing countries in the past 15 years and Korea's strategy to promote domestic R&D. Box 2.7 is based on World Bank 1997f. The estimate of the return on agricultural research is from Alston and others 1998. Lack of IPR protection for critical agricultural technologies is discussed in the Pray background paper. Programs to reform public R&D laboratories in Brazil, China, India, Korea, and Mexico and focus them on the needs of the productive sector are described in the Lall background paper (b). Figures on Korea's ascendancy in private R&D and the reasons for it are given in Kim 1997. The statistics on sales of medicines derived from plants discovered by indigenous peoples and the statistic on natural pharmaceuticals in the United States are from Brush and Sabinsky 1995 and UNICEF 1995. Oral rehydration as a contrary example of where local knowledge was ignored is discussed in UNICEF 1995 and Werner and Sanders 1997. Box 2.8 is based on Quisumbing and others 1995. Box 2.9 draws on ESMAP 1991b.

### Chapter 3

The studies of labor markets that find an association between wages and basic schooling are Glewwe 1998 (for Ghana), Knight and Sabot 1990 (for Kenya and Tanzania), Alderman and others 1996 (for Pakistan), and Moll 1998 (for South Africa). Studies from Côte d'Ivoire, Pakistan, and Peru on "sheepskin" or credentialing effects of education are van der Gaag and Vijverberg 1989, Tayyeb 1991, and King 1990.

See the bibliographical note to the Overview for references to studies that find greater productivity and a greater likelihood of profiting from technological improvements among more-educated farmers. Orazem and Vodopivec 1995 find that more-educated Slovenian workers experienced smaller declines in employment and real wages. Jejeebhoy 1995 is the source of evidence that persons with more schooling are more likely to adopt new contraceptive technology. Beneficial effects on IQ, innate ability, and cognitive development are discussed in Sternberg and Grigorenko 1997. Box 3.1 is based on Young 1997. On the four ways in which schooling enables mothers to raise healthier children see Glewwe 1997, Thomas and Strauss 1992, Barrera 1990, Frankenberg 1995, Rosenzweig and Schultz 1982, and Thomas, Lavy, and Strauss 1996. Examples of how schooling complements health services and reduces mortality rates among children can be found in Alderman and Lavy 1996. On the rela-

tionship between educational attainment and condom use see Filmer 1997.

The study of educational attainment among inventors in India is from Deolalikar and Evenson 1990. Evidence for the association between mathematics and science test performance and subsequent growth is in Hanushek 1995.

Box 3.2 is based on Murphy, Shleifer, and Vishny 1992. Box 3.3 draws on OECD 1996a and Amsden 1989. The trend toward including linkages between universities and the private sector is discussed in Lee 1996.

See the bibliographical note to the Overview for documentation of the fact that farmers with basic schooling gained a substantial advantage over farmers with no schooling as they acquired experience. Westphal, Rhee, and Pursell 1981 argue that Korea's rapid rate of technological learning was due to the short intervals between construction of successive industrial plants. Tan and Batra 1995 discuss the fact that larger firms are more likely to train their workers formally.

The fact that children of more-educated parents, particularly mothers, obtain more education is discussed in Alderman, Orazem, and Paterno 1996. The study that estimated the proportion of educated people in an Indian village that was optimal for learning about new farm technologies is Yamauchi 1997. The source of the ratio of males with and without high school diplomas within the ambit of the U.S. criminal justice system is Council of Economic Advisers 1995. A recent study showing a lack of correlation between public spending on education and economic growth is Devarajan, Swaroop, and Zou 1996, and a study finding a lack of correlation between such spending and educational outcomes is Hanushek and Kim 1996. Editions of *World Development Report* for 1988, 1990, 1991, and 1997 discuss the efficiency and equity issues bedeviling education, as do several World Bank strategy papers on education: see, for example, World Bank 1995a. Assessments showing that students have not mastered skills that the curriculum was intended to teach are from Glewwe 1998 and Glewwe, Kremer, and Moulin 1997. Box 3.4 draws on Knowles and others 1998.

For a discussion of the role of decentralization see Lauglo and McLean 1985. A discussion of decentralization of education as a means of overcoming information problems with monitoring and incentives is in Pritchett and Filmer forthcoming. King and Ozler 1998 examine Nicaragua's experience with school reform and its effect on test scores. On the post-civil war improvement and expansion of El Salvador's community-managed schools see Jimenez and Sawada 1998. Evidence of how information affected behavior during the AIDS epidemic in Thailand is from World Bank 1997b. Box 3.5 is based on Middleton, Ziderman, and Van Adams 1993.

Accreditation is discussed in Cooney and Paqueo-Arrezo 1993. Estimates of private rates of return to education are from Psacharopoulos 1994. Surveys from 21 countries showing income to be a major constraint are described in Behrman and Knowles 1997. Results for Peru are from Jacoby 1994, and those for Vietnam are from Glewwe and Jacoby 1995. The study of student selection for higher education in Colombia is Jimenez and Tan 1987. The statistics provided on higher education in the Philippines are from James 1991. The cross-country review of government-financed student loan programs is that by Albrecht and Ziderman 1991. Box 3.6 draws on Harding 1995 and Harrison 1997. The figure for the share of noneducational expenses in tertiary education budgets in francophone Africa is from World Bank 1995a.

The source for the information on curriculum development in Europe and Central Asia is Heyneman 1998. Documentation on distance education in Latin America is from World Bank 1998a. Background on interactive radio instruction can be found in Bosch 1997. A recent assessment of computer-aided instruction is in Osin 1998. The gains from computer-assisted instruction are documented in Kulik, Kulik, and Baangert-Drowns 1985. A review of distance education and virtual universities is in Perraton and Potashnik 1997. Box 3.7 is based on World Bank forthcoming (b).

#### *Chapter 4*

The discussion of the information revolution and the forces driving it draws on Bond 1997a. The story of how community street theaters have communicated information on AIDS prevention is from McIntyre 1998. The statistics on the rise of computing power per dollar invested and on the falling cost of voice transmission circuits are from Bond 1997a. Box 4.1 is based on the Flamm background paper (a) and information provided by the Energy, Mining, and Telecommunications Department of the World Bank. Figures on the rate of growth in the world supply of information technology and on the industrial countries' share in its production are from Mansell and Wehn 1998.

Examples of the uses of technology by individual investors in China are taken from Smith 1997. The example of the use of information technology to improve opportunities for generating income in Vietnam is from 24 Hours in Cyberspace 1996; the example from Panama was provided by Daniel Salcedo. Box 4.2 is from Clottes 1997, with additional material provided by Rema Balasundram.

Examples of the use of telecommunications and computer links to provide marketing information to farmers in Costa Rica, and of cellular phones to inform Ivorian farmers of current international cocoa prices, are taken, respectively, from Zijp 1994 (quoting Annis 1992) and Rischard

1996. The use by Filipino farmers of telex and fax machines for research and marketing, and the description of how Mexican farmer associations used computers to monitor the government's rural credit program, are described in Zijp 1994. Saunders, Warford, and Wellenius 1993 report on the impact of telephone service on fruit farmers in Sri Lanka, on the small grocer in Uruguay, and on the spare parts distributor in Kenya. The examples from Kenya and Morocco of how governments can use technology to improve governance by sharing knowledge among policymaking institutions and think tanks are from Schwere and Kimberley 1995 and Hanna 1991, respectively. Box 4.3 draws on Schwere and Kimberley 1995. The information technology objectives in Malaysia's national development strategy were provided by the Malaysia Country Management Unit of the World Bank and presented in Multimedia Development Corporation 1998. The discussion of the Y2K problem and Box 4.4 are based on material provided by the Information Support Group and the Information for Development program at the World Bank.

The survey of Internet users in Africa is discussed in Menou 1998. Figures on telephone density in South Asia, Sub-Saharan Africa, and the United States are from the International Telecommunication Union database, as are figures showing that the majority of people on waiting lists for telephones are in developing countries. The figure on annual telecommunications investment in developing countries is from Clottes 1997.

General references for the section on competition and the role of public policy are drawn from Stiglitz 1998, which also documents the high capital cost of telephone installation in many developing countries. The share of private telephones in Sub-Saharan Africa is from the International Telecommunication Union database. Box 4.5 is based on Braga 1997. Figures on price competition for cellular phones in Sri Lanka are from World Bank data. Changes since the 1980s in the way information infrastructure is supplied, priced, financed, used, and regulated are discussed in Smith 1995.

Box 4.6 draws on Braga and others 1998. Statistics on the availability of pay phones in Africa and Singapore are from the International Telecommunication Union database. Stories on obstacles to telephone communication in poor countries are from Hope 1997 and Wade-Barrett 1997. Wellenius 1997b describes and gives figures for what happened in Chile and the Philippines when they adopted competitive telecommunications systems. The IENTI Telecommunications Reform database documents Uganda's initiative in bringing about competition in telephone services. Wellenius 1997b discusses the benefits to consumers of competition in cellular service in Ghana. Box 4.7 is based on information received from Paul Bermingham.

The principles for privatization in the telecommunications sector are discussed in Stiglitz 1998. How poor regulation thwarted the benefits of liberalization in Poland is described in Wellenius 1997b. Regulatory measures in Guatemala to open up competitive pricing of connectivity charges are described in Spiller and Cardilli 1997. Measures for bringing telephone access to the poor are described in Zongo 1997 for Senegal; information on such measures for South Africa was provided by staff in the Energy Management and Communications department of the World Bank. Spiller and Cardilli 1997 describe how Chile and New Zealand have successfully privatized. The Chilean model of competitive bidding for subsidies is discussed in Wellenius 1997a. The private company that will bring world-class programs to low-income consumers in Africa, Latin America, and Asia through low-orbit satellites is WorldSpace (see WorldSpace 1998).

#### *Chapter 5*

The role of guilds as providers of quality control in medieval Europe and in the Arab world in the 19th century is discussed in Kuran 1989. Box 5.1 is based on Klitgaard 1991. Dimitri 1997 is the source of the discussion of quality problems in the fresh fruit market in the United States. For a discussion of quality problems in the labor market, and of the 1986 survey in West Bengal, India, documenting territorial segmentation of the labor market, see Bardhan and Rudra 1986. Box 5.2 is from Aleem 1993.

The discussion of sharecropping is based on Stiglitz 1974. Statistics on the proportion of land under share tenancy in different countries are drawn from Otsuka, Chuma, and Hayami 1992. Box 5.3 is based on Shaban 1987. For a discussion of tenancy arrangements in rural Tunisia see Laffont and Matoussi 1995. Land reforms in Brazil to address the productivity problems of poor farmers are discussed in World Bank 1997e. The discussion of permanent labor contracts and the figures on their decline in two Indian villages are drawn from Ray 1998.

#### *Chapter 6*

For a general review of the role of finance in development see Levine 1997. Some basic references for information-related market failures in finance are Stiglitz 1993 and Stiglitz and Weiss 1981. The informational foundations of banking are treated at a detailed theoretical level in Freixas and Rochet 1997. Box 6.1 is based on Kane 1994. Evidence from Ecuador and India on the relationship of productivity to access to credit is from Caprio and Demirgüç-Kunt 1997. Box 6.2 draws on Jorion 1997. The dynamic feedback of weakening collateral values is developed in a systematic way by Kiyotaki and Moore 1997. The point that financial markets do not provide full incentives for information gathering derives from Gross-

man and Stiglitz 1980. Details of the modifications to Botswana's system of land ownership, which strengthened collateral, were provided by Quill Hermans. Box 6.3 was written by Randi Ryterman. James 1987 provides evidence that announcement of a bank loan agreement boosts the stock price of the borrowing firm. The quotation from Walter Bagehot is from Bagehot 1873. The discussion of international differences in accounting standards and legal systems, including differential protection of managers, creditors, and shareholders, is based on the work of La Porta and others 1998. The related analysis of quantitative links between these accounting and legal differences and growth is based on Levine, Loayza, and Beck 1998. An analytical discussion of the "looting" problem is in Akerlof and Romer 1993. The discussion of the relationship between liquid stock exchanges and economic growth draws on Levine and Zervos 1998. The point about the need for a different approach to legal system design in transition economies is from Black, Kraakman, and Hay 1998. Box 6.4 is based in part on Weiss and Nikitin 1998. Box 6.5 draws on Garcia 1996 and White 1997. The contribution of complex derivatives in the Mexican exchange rate crisis is described by Garber 1998. Box 6.6 was written by Gerard Caprio. The Suffolk Bank system of private regulation is described by Calomiris and Kahn 1996. For discussion of evidence that mild restraints on deposit interest rates may have contributed to growth in some East Asian economies see World Bank 1993b. For economic evidence linking capital account with financial market vulnerability see Demirgüç-Kunt and Detragiache 1997. On the theory of financial restraint see Hellman, Murdock, and Stiglitz 1997.

Additional material and suggestions were provided by Cheryl Gray, Quill Hermans, Karla Hoff, Chad Leechor, Ross Levine, Don McIsaac, and Barbara Oppen.

#### *Chapter 7*

The chapter draws on a wide range of sources, including Dasgupta and Mäler 1994, Tietenberg 1997, Thomas, Kishor, and Belt 1997, and World Bank 1998b. Figures on pollution in four Chinese cities are from World Bank 1997a. Figures and other evidence on disease and damage from environmental degradation come from Crosson and Anderson 1991, Esrey 1990, and Nelson 1990. The anecdote on the durian tree in Malaysia is based on Lewin 1987 and World Bank 1992. Data on wheat production and resource degradation in Pakistan are from Byerlee 1992, Byerlee and Siddiq 1994, and Ali 1998.

The chronology in Box 7.1 was taken from Handel and Risbey 1992 and Jäger 1992, with updates. The notion of sustainable development based on the substitution of human-made for natural capital is discussed by many authors; see, for example, Pezzey 1989.

In Box 7.2 the notion of option value is from Arrow and Fisher 1974; the estimate of the option value of conserving the wilderness area of Sierra de Manantlán is from Fisher and Hanemann 1990. Suggestions for effective indicators of environmental quality are drawn from World Bank 1997c. The notion of genuine saving and the figures for Latin America and the Caribbean and for Sub-Saharan Africa are from World Bank 1997c. Box 7.3 is based on World Bank 1998b. The example of Botswana's natural resource accounts was provided by Kirk Hamilton. Nordhaus and Popp 1997 estimate the value of information about climate change. The discussion of El Niño forecasting is based on information provided by Maxx Dille and Robert Watson. The anecdote about firewood use in the Republic of Yemen comes from ESMAP 1991a. World Bank 1997a reports on the Waigaoqiao thermal power plant in China. Box 7.4 is based on a summary of the project provided by Dely Gapasin.

The example of the West African Newsmedia and Development Center is taken from Ariasingam, Abedin, and Chee 1997. Box 7.5 is based on information supplied by Kulsum Ahmed and Paul Martin. On the Sub-Saharan African Knowledge and Experience Resource Network see MELISSA 1998. Box 7.6 is based on Ostrom and Wer-time 1995. Box 7.7 is based on information from Maureen Cropper and Donald Larson and on the analysis by Schmalensee and others 1997. On China's scheme for reducing water pollution see Wang and Wheeler 1996. The estimate of the benefits of market-based greenhouse gas abatement is based on Richels and others 1996. On joint implementation and related mechanisms see UNFCCC 1998. The link between lack of insurance and land degradation is described by Dasgupta and Mäler 1994. The discussion of energy service companies is based on Cabraal, Cosgrove-Davies, and Schaeffer 1996. The estimate of increased affordability of energy comes from the Solar Electric Light Company, Chevy Chase, Md. Some issues related to the decentralization of environmental management functions are discussed in Lutz and Caldecott 1996. For recent literature on how industry responds to community environmental pressure see World Bank 1998b. Box 7.8 is from World Bank 1998b. Box 7.9 is based on Blackman and Bannister 1998. Box 7.10 is based on a summary of the project provided by Karin Kemper and Donald Larson.

Information on the work of parataxonomists in Costa Rica can be found in Reid 1993. The projection of demand for organic products in Canada is from Weymes 1990. The discussion of free riding in international agreements is based on Barrett 1992.

Contributions, comments, and suggestions received from Kulsum Ahmed, Tamara Belt, Anil Cabraal, Ken Chomitz, Luis Constantino, Maureen Cropper, Chona

Cruz, John Dixon, Francisco Ferreira, Dely Gapasin, Kirk Hamilton, Ian Johnson, Karin Kemper, Nalin Kishor, Kanta Kumari, Donald Larson, Vladimir Litvak, Paul Martin, Douglas Olson, Ramesh Ramankutty, Richard Reidinger, Frank Rittner, Larry Simpson, and Vinod Thomas are gratefully acknowledged.

### *Chapter 8*

Statistics on poverty in the introductory section are from World Bank data. Researchers' estimates of the impact of an increase in literacy on environmental awareness are from Dasgupta and Wheeler 1997. Box 8.1 draws on Thomas, Strauss, and Henriques 1991. The Jamaican living standards survey providing information about food supplementation in poor households is discussed in Grosh 1992. The study of 121 rural water supply projects in 49 countries is Narayan and Pritchett 1995. On the donor-funded irrigation program in Nepal that nearly missed the fact that farmers had already installed their own systems see Ostrom 1995. Cooperative groups in Kenya and the effectiveness of group-centered extension among female farmers are described in Bindlish and Evenson 1993 and Purcell and Anderson 1997. The study showing evidence of peer influence in a family planning program in Bangladesh is Munshi and Mayaux 1998. Box 8.2 draws on Tendler 1994 and Tendler and Freedheim 1994. The survey in rural Tanzania to measure the density and importance of social capital is Narayan and Pritchett 1997. Issues in promoting oral rehydration therapy are described in UNICEF 1997 and Werner and Sanders 1997.

Jalan and Ravallion 1998 study the effects of individual and covariate shocks to income on rural southern Chinese households of varying wealth. The study of ICRISAT data on farmers' choices of traditional versus high-yielding rice varieties, reported in Box 8.3, is Morduch 1995; Binswanger and Rosenzweig 1993 relate farm profits to the predictability of the monsoon. Jacoby and Skoufias 1997 examine the response of school attendance to seasonal income fluctuations in India. Box 8.4 is based on Udry 1994.

The findings in Thailand that farmers with land title, who could offer collateral, could borrow significantly more than those without are from Feder, Onchan, and Raparla 1986, as is evidence that farmers with title in Thailand and other countries invested more in their land and obtained better access to credit. Feder 1991 gathers evidence for other countries. Qualifying evidence from Paraguay on the value of land titling in providing access to credit is from Olinto 1997. The study of land titling in Ghana, Kenya, and Rwanda is Bruce and Migot-Adholla 1994. The discussion of the Grameen Bank and other microfinance institutions draws on Morduch 1998. Box 8.5 draws on Woolcock 1998.

Information on the Unit Desa program in Indonesia is from Jonathan Morduch. How short-term relief programs combined with institutional credit reduced distress sales of land in India after a natural disaster is described in Cain 1983. Self-selection programs of assistance are discussed in Subbarao and others 1997; the 1997 World Bank project in Argentina is described in an internal World Bank report. Tuck and Lindert 1996 describe the food price subsidy program in Tunisia. Box 8.6 is based on Case and Deaton 1996.

The discussion of P4K in Indonesia is drawn from International Fund for Agricultural Development 1994. For a discussion of the Grameen Bank's programs to promote social development see Khandker, Khalily, and Khan 1998. Grameen's cellular phone enterprise is discussed by Yunus 1996. Details of the human rights and legal education of the Bangladesh Rural Advancement Committee were provided by Jonathan Morduch. Morduch 1998 describes the formation of consortia to link microfinance programs globally.

### Chapter 9

Information for the section on knowledge creation and for Boxes 9.1, 9.2, and 9.3 was provided by the Consultative Group on International Agricultural Research, Mead Over, and the Global Environment Facility.

The section on transferring and adapting knowledge draws heavily on World Bank forthcoming (a). The account of the workings of PROSANEAR comes from World Bank 1994b and other World Bank documents. The description of AGETIPs is taken from Dia 1995. The story of Guinea's water sector is from a 1996 edition of *Viewpoint*, a World Bank internal newsletter published by the Industry and Energy Department. Box 9.4 draws from Heggie 1995. Family planning services in rural Bangladesh are described in World Bank forthcoming (a). The allusion to the Kenya textbook experiment draws on Glewwe, Kremer, and Moulin 1997. The reference for the Vietnam story is World Bank forthcoming (a). World Bank 1994a discusses international assistance and pension reform. The recent U.K. white paper on international development is United Kingdom Secretary of State for International Development 1997. The discussion of the return to analytical work is drawn from Deininger, Squire, and Basu forthcoming. Information for Box 9.5 came from an internal Bank document. The quotation from the United Nations Development Programme evaluation is from Berg 1993.

Descriptions of the spread of formal knowledge management programs in Europe and the United States appear in American Productivity and Quality Center 1996, 1997, and 1998. Desisto and Harris 1998 predict that during the next five years knowledge sharing programs

will shift from an internal to an external focus. Box 9.6 draws on material supplied by Bruce Ross-Larson. Box 9.7 draws on material supplied by Roberto Chavez. On the question of the choice of appropriate technology for knowledge sharing, a general discussion is in Davenport and Prusak 1998. Box 9.8 was written by Peter Armstrong. Willmott 1998 discusses the fact that many systems are still not quick, easy to use, or easy to maintain. Davenport and Prusak 1998 further note that we do not yet have useful technology to assist with knowledge creation and discuss more traditional modes of communication as tools for knowledge sharing.

Studies of the costs of knowledge management programs have been produced by the Gartner Group (Bair and Hunter 1998), including estimates of knowledge management expenditure in budgets for enterprises or, in the case of consulting companies, in revenue (Hunter 1998). American Productivity and Quality Center 1996 documents how organizations like Price Waterhouse and Ernst & Young have made knowledge sharing an integral part of their formal personnel evaluation systems. On the use of knowledge-sharing awards, see a general discussion in Davenport and Prusak 1998, and the description of the Texas Instruments "Not Invented Here But I Used It Anyway" award in American Productivity and Quality Center 1997. The use of incentives is identified as a critical success factor in Davenport, De Long, and Beers 1998; the study of whether knowledge management programs actually succeed appears in the same source. Box 9.9 was written by David Gray.

### Chapter 10

Much of the material in this chapter summarizes discussions in other chapters. Documentation is provided in the bibliographical note for the chapter where the original discussion appears.

King and Anne 1993 reports on the provision of educational stipends to girls in Bangladesh. Aiyer 1996 describes how Mexican accounting methods failed to show the true status of bank loans. On the role of India's media in warning of famine and agitating for public action see Drèze and Sen 1989 and Ram 1990. The source for the statement that several South and Central American countries have increased the quality and quantity of information about individual taxpayers is the Mookherjee background paper.

### Background papers

Barton, John. "Biotechnology Patenting."

Behrman, Jere. "Empirical Evidence on Asymmetric Information, Markets and Policies in Developing Economies."

Belussi, Fiorenza. "Policies for the Development of Knowledge-Intensive Local Production Systems."

- Braga, Carlos, Carsten Fink, and Claudia Paz Sepulveda. "Intellectual Property Rights and Economic Development." Centre for Information Society Development in Africa, CSIR South Africa, and the Centre for Tele-Information, Technical University of Denmark. "Knowledge in Development: Multi-Media, Multi-Purpose Community Information Centres as Catalysts for Building Innovative Knowledge-Based Societies."
- Flamm, Kenneth. "Assessing the Rate of Technological Advance in Information Technology: Quantitative Measurements and Methodological Issues." (a)
- . "Semiconductor Trade Disputes: Defining the World Trading System in High Technology Products." (b)
- Johnson, Daniel, and Robert Evenson. "Invention in Less-Developed Countries."
- Kumar, Nagesh. "Multinational Enterprises and Technology Generation: Locational Patterns, Their Determinants and Implications."
- Kuznetsov, Yevgeny. "Public Policy in the World of Uncertainty and Change: Facilitating Social Learning."
- Lall, Sanjaya. "Exports of Manufactures by Developing Countries: Emerging Patterns of Trade and Location." (a)
- . "Putting Knowledge to Work for Development." (b)
- Maskus, Keith. "Price Effects and Competition Aspects of Intellectual Property Rights in Developing Countries."
- Mitra, Raja. "Harnessing Information and Knowledge for Economic Development." (a)
- . "Knowledge Clusters and Regional Inequalities." (b)
- Mookherjee, Dilip. "Information Systems and Public Policy in LDCs."
- Pray, Carl. Untitled.
- Radošević, Slavo. "Post-Socialist Transformation of Countries of the Central and Eastern Europe and Knowledge-Based Economy: The Evidence and Main Analytical Issues." (a)
- . "Building Knowledge-Based Economy in Countries of Central and Eastern Europe: Policy Implications." (b)
- Rosenzweig, Mark. "Social Learning and Economic Growth. Empirical Evidence."
- Sternberg, Robert, Elena Grigorenko, and Donald Bundy. "Measuring Human Development: The Role of General Indices of Cognitive Ability in Assessing the Impact of Education and Targeted Interventions on Child Development."
- Thomas, Vinod, Nalin Kishor, and Tamara Belt. "Embracing the Power of Knowledge for a Sustainable Environment."
- Selected bibliography**
- Acemoglu, Daron. 1997. "Training and Innovation in an Imperfect Labor Market." *Review of Economic Studies* 64(2): 445–64.
- Aghion, Philippe, and Patrick Bolton. 1997. "A Theory of Trickle-Down Growth and Development." *Review of Economic Studies* 64(2): 151–72.
- Aiyer, Sri-Ram. 1996. "Anatomy of Mexico's Banking System following the Peso Crisis." Report No. 45 (revised). Regional Studies Program, Latin America and the Caribbean Technical Department, World Bank, Washington, D.C.
- Akerlof, George A. 1976. "The Economics of Caste and of the Rat Race and Other Woeful Tales." *Quarterly Journal of Economics* 90(4): 599–617.
- Akerlof, George A., and Paul M. Romer. 1993. "Looting: The Economic Underworld of Bankruptcy for Profit." *Brookings Papers on Economic Activity* 2(1): 2–60.
- Albrecht, Douglas, and Adrian Ziderman. 1991. *Deferred Cost Recovery for Higher Education: Student Loan Programs in Developing Countries*. World Bank Discussion Paper No. 137. Washington, D.C.: World Bank.
- Alderman, Harold, J. Behrman, D. Ross, and R. Sabot. 1996. "The Returns to Endogenous Human Capital in Pakistan's Rural Wage Labor Market." *Oxford Bulletin of Economics and Statistics* 58(1): 29–55.
- Alderman, Harold, and Victor Lavy. 1996. "Household Responses to Public Health Services: Cost and Quality Trade-offs." *World Bank Research Observer* 11(1): 3–22.
- Alderman, Harold, Peter F. Orazem, and Elizabeth M. Paterno. 1996. "School Quality, School Cost, and the Public/Private School Choices of Low-Income Households in Pakistan." Working Paper Series on Impact Evaluation of Education Reforms, Paper No. 2. Development Research Group, World Bank, Washington, D.C.
- Alderman, Harold, and G. Shively. 1996. "Price Movements and Economic Reform in Ghana: Implications for Food Security." In David Sahn, ed., *Economic Reform and the Poor in Africa*. Oxford, U.K.: Clarendon Press.
- Aleem, Irfan. 1993. "Imperfect Information, Screening and Cost of Informal Lending: A Study of a Rural Credit Market in Pakistan." In Karla Hoff, Avishay Braverman, and Joseph E. Stiglitz, eds., *The Economics of Rural Organization: Theory, Practice, and Policy*. London, U.K.: Oxford University Press.
- Ali, Mubarak. 1998. "Technical Change and Resource Productivity in Pakistan's Agriculture: An Analysis by Cropping System." Asian Vegetable Research and Development Center, Tainan, Taiwan, China.
- Alston, J. M., C. C. Marra, P. G. Pardey, and T. J. Wyatt. 1998. "Research Returns Redux: A Meta-Analysis of Agricultural R&D Evaluations." IFPRI Research Report (draft). International Food Policy Research Institute, Washington, D.C.
- Amann, Markus, and Janusz Cofala. 1995. "Scenarios of Future Acidification in Asia: Exploratory Calculations." In *RAINS-ASIA Technical Report: The Development of an Integrated Model for Sulfur Deposition*. Washington, D.C.: World Bank.
- American Productivity and Quality Center. 1996. *Knowledge Management Consortium Benchmarking Study: Best-Practice Report*. Houston, Tex.
- . 1997. *Using Information Technology to Support Knowledge Management, Consortium Benchmarking Study: Best-Practice Report*. Houston, Tex.
- . 1998. *Knowledge Management and the Learning Organization: A European Perspective*. Houston, Tex.
- Amsden, Alice. 1989. *Asia's Next Giant: South Korea and Late Industrialization*. New York, N.Y.: Oxford University Press.
- Annis, Sheldon. 1992. "Evolving Connectedness Among Environmental Groups and Grassroots Organizations in Protected Areas of Central America." *World Development* 20: 587–95.
- Aoki, Masahiko, Kevin Murdock, and Masahiro Okuno-Fujiwara. 1997. "Beyond the East Asian Miracle: Introducing the Market-Enhancing View." In Masahiko Aoki, Kyung-Ki

- Kim, and Masahiro Okuno-Fujiwara, eds., *The Role of Government in East Asian Economic Development: Comparative Institutional Analysis*. New York, N.Y.: Oxford University Press.
- Aoki, R., and T. J. Prusa. 1993. "International Standards for Intellectual Property Protection and R&D Incentives." *Journal of International Economics* 35(2): 251–73.
- Ariasgama, David L., Esme Abedin, and Nina Chee. 1997. "Environmental Education. Building Constituencies." Report No. 17319. Environmental Education Program, World Bank, Washington, D.C.
- Arnott, Richard, and Joseph E. Stiglitz. 1994. "Moral Hazard and Nonmarket Institutions: Dysfunctional Crowding Out or Peer Monitoring?" *American Economic Review* 81(1): 179–90.
- Arrow, Kenneth, and Anthony C. Fisher. 1974. "Environmental Preservation, Uncertainty, and Irreversibility." *Quarterly Journal of Economics* 88(2): 312–19.
- Bagehot, Walter. 1873. *Lombard Street: A Description of the Money Market*. London, U.K.: H. S. King. Reprinted, Homewood, Ill.: Richard D. Irwin, 1962.
- Bair, J., and R. Hunter. 1998. "Introducing the KM Project Viability Assessment." Research Note KM: SPA-03-5005. Gartner Group, Stamford, Conn.
- Banerjee, A. 1992. "Simple Model of Herd Behavior." *Quarterly Journal of Economics* 107(3): 797–817.
- Banerjee, Abhijit, and Andrew Newman. 1993. "Occupational Choice and the Process of Development." *Journal of Political Economy* 101(2): 274–98.
- Bardhan, Pranab. 1997. "The Nature of Institutional Impediments to Economic Development." Working Paper No. 96066. Center for International and Development Economic Research, University of California, Berkeley.
- Bardhan, Pranab, and A. Rudra. 1986. "Labor Mobility and the Boundaries of the Village Moral Economy." *Journal of Peasant Studies* 13(3): 90–99.
- Barr, Nicholas, ed. 1994. *Labor Markets and Social Policy in Central and Eastern Europe: The Transition and Beyond*. New York, N.Y.: Oxford University Press.
- Barrera, Albino. 1990. "The Role of Maternal Schooling and Its Interactions with Public Health Programs in Child Health Production." *Journal of Development Economics* 32(1): 69–91.
- Barrett, Scott. 1992. "The Problem of Global Environmental Protection." In Dieter Helm, ed., *Economic Policy toward the Environment*. Oxford, U.K.: Blackwell.
- Bartel, Ann P., and Frank R. Lichtenberg. 1987. "The Comparative Advantage of Educated Workers in Implementing New Technology." *Review of Economics and Statistics* 69(1): 1–11.
- Bartholomew, Philip, and Benton Gup. 1998. "A Survey of Bank Failures in the Non-U.S. G-10 Countries since 1980." Paper presented at the Western Economics Association meetings, Lake Tahoe, Nev., June.
- Baskin, Jonathan Barron. 1988. "The Development of Corporate Financial Markets in Britain and the United States, 1600–1914: Overcoming Asymmetric Information." *Business History Review* 62(1): 199–237.
- Beanton, Albert E., Ina V. S. Mullis, Michael O. Martin, Eugenio J. Gonzalez, Dana L. Kelly, and Teresa A. Smith. 1996. *Mathematics Achievement in the Middle School Years: IEA's Third International Mathematics and Science Study*. Boston, Mass.: Center for the Study of Testing, Evaluation, and Educational Policy, and Boston College.
- Behrman, Jere R., and James C. Knowles. 1997. "How Strongly is Child Schooling Associated with Household Income?" University of Pennsylvania, Philadelphia, Penn., and Abt Associates, Bethesda, Md.
- Berg, Elliott. 1993. *Rethinking Technical Cooperation: Reforms for Capacity Building in Africa*. New York, N.Y.: United Nations Development Programme.
- Biggs, T., M. Shah, and P. Srivastava. 1995. *Technological Capabilities and Learning in African Enterprises*. World Bank Technical Paper No. 286. Washington, D.C.: World Bank.
- Bindlish, Vishva, and Robert Evenson. 1993. *Evaluation of the Performance of T&V Extension in Kenya*. World Bank Technical Paper No. 208. Africa Technical Department, World Bank, Washington, D.C.
- Binswanger, Hans P., Klaus Deininger, and Gershon Feder. 1988. "Power, Distortions, Revolt and Reform in Agricultural Land Relations." In Jere R. Behrman and T. N. Srinivasan, eds., *Handbook of Development Economics*, vol. IIIB. Amsterdam: North-Holland.
- Binswanger, Hans, and Mark Rosenzweig. 1993. "Wealth, Weather, Risk, and the Composition and Profitability of Agricultural Investments." *Economic Journal* 103(4): 56–78.
- Black, Bernard, Reiner Kraakman, and Jonathan Hay. 1998. "Corporate Law From Scratch." In Roman Frydman, Cheryl Gray, and Andrzej Rapaczynski, eds., *Corporate Governance in Central Europe and Russia: Insiders and the State*. Budapest: Central European University Press.
- Blackman, Allen, and Geoffrey Bannister. 1998. "Community Pressure and Clean Technologies in the Informal Sector: An Econometric Analysis of the Adoption of Propane by Traditional Brickmakers in Ciudad Juárez, Mexico." *Journal of Environmental Economics and Management* 35(1): 1–21.
- Blanchard, Olivier, and Michael Kremer. 1997. "Disorganization." *Quarterly Journal of Economics* 112: 1091–1126.
- Bond, James. 1997a. "The Drivers of the Information Revolution—Cost, Computing Power and Convergence." In *The Information Revolution and the Future of Telecommunications*. Washington, D.C.: World Bank.
- . 1997b. "How Information Infrastructure is Changing the World." In *The Information Revolution and the Future of Telecommunications*. Washington, D.C.: World Bank.
- . 1997c. "Telecommunications is Dead, Long Live Networking—The Effect of the Information Revolution on the Telecom Industry." In *The Information Revolution and the Future of Telecommunications*. Washington, D.C.: World Bank.
- Bosch, Andrea. 1997. "Interactive Radio Instruction: Twenty-Three Years of Improving Educational Quality." Education and Technology Series No. 1(1). Human Development Department Education Group—Education and Technology Team, World Bank, Washington, D.C.
- Bowles, Samuel, and Herbert Gintis. 1996. "Efficient Redistribution: New Rules for Markets, States, and Communities." *Politics and Society* 24: 307–42.
- Braga, Carlos A. Primo. 1997. "Liberalizing Telecommunications and the Role of the World Trade Organization." In *The Information Revolution and the Future of Telecommunications*. Washington, D.C.: World Bank.
- Braga, Carlos A. Primo, and Carsten Fink. 1997. "The Private Sector and the Internet." In *The Information Revolution and the Future of Telecommunications*. Washington, D.C.: World Bank.

- Braga, Carlos A. Primo, Emmanuel Forestier, Charles Kenny, and Peter Smith. 1998. "Developing Countries and the Telecommunications Accounting Rate Regime: A Role for the World Bank." Energy Mining and Telecommunications Department (IENTI), Telecommunication and Informatics Division, World Bank, Washington, D.C.
- Braverman, Avishay, and Joseph E. Stiglitz. 1982. "Sharecropping and the Interlinking of Agrarian Markets." *American Economic Review* 72(4): 695–715.
- Bruce, John W., and S. E. Migot-Adholla. 1994. *Searching for Land Tenure Security in Africa*. Dubuque, Ia.: Kendall/Hunt.
- Brush, S. B., and D. Sabinsky. 1995. *Valuing Local Knowledge: Indigenous People and Intellectual Property Rights*. Washington, D.C.: Island Press.
- Buckley, Stephen. 1997. "The Lives and Deaths of an Ethiopian Midwife." *Washington Post*, October 7, 1997.
- Burnside, Craig, and David Dollar. 1997. "Aid Policies and Growth." Policy Research Working Paper No. 1777. World Bank, Washington, D.C.
- Byerlee, Derek. 1992. "Technical Change, Productivity, and Sustainability in Irrigated Cropping System of South Asia: Emerging Issues in the Post-Green Revolution Era." *Journal of International Development* 4(5): 477–96.
- Byerlee, Derek, and Piedad Moya. 1993. "Impacts of International Wheat Breeding Research in the Developing World, 1966–1990." Centro Internacional de Mejoramiento de Maiz y Trigo (CIMMYT with CGIAR), Mexico City.
- Byerlee, Derek, and A. Siddiq. 1994. "Has the Green Revolution Been Sustained? The Quantitative Impact of the Seed-Fertilizer Revolution in Pakistan Revisited." *World Development* 22(9): 1345–61.
- Cabraal, Anil, Mac Cosgrove-Davies, and Loretta Schaeffer. 1996. *Best Practices for Photovoltaic Household Electrification Programs. Lessons from Experiences in Selected Countries*. World Bank Technical Paper No. 324. Asia Technical Department, World Bank, Washington, D.C.
- Cain, Mead. 1983. "Fertility as an Adjustment to Risk." Working Paper No. 100. Population Council, Center for Policy Studies, New York, N.Y.
- Calomiris, C. W., and C. M. Kahn. 1996. "The Efficiency of Self-Regulated Payments Systems: Learning from the Suffolk System." *Journal of Money, Credit, and Banking* 28(4): 766–97.
- Caprio, J. G., Jr., and A. Demirgüç-Kunt. 1997. "The Role of Long-Term Finance." Policy Research Working Paper No. 1746. Policy Research Department, Finance and Private Sector Development Division, World Bank, Washington, D.C.
- Case, Anne, and Angus Deaton. 1996. "Large Cash Transfers to the Elderly in South Africa." NBER Working Paper No. 55721. National Bureau of Economic Research, Cambridge, Mass.
- Castro-Leal, Florencio, Julia Dayton, Lionel Demery, and Kalpana Mehra. 1997. "Public Social Spending in Africa: Do the Poor Benefit?" Working Paper. Poverty Reduction and Economic Management Network, Poverty Division, World Bank, Washington, D.C.
- CGIAR (Consultative Group on International Agricultural Research). 1994–95. *Annual Report*. Washington, D.C.: CGIAR Secretariat.
- Chemical Week. 1994. "Indian Industry Flocks to ISO 9000 to Boost Already Booming Exports." November 4.
- Clottes, Francoise. 1997. "The Information Revolution and the Role of Government." In *The Information Revolution and the Future of Telecommunications*. Washington, D.C.: World Bank.
- Cooney, Robert P., and Eliza Paqueo-Arrezo. 1993. "Higher Education Regulation in the Philippines: Issues of Control, Quality Assurance, and Accreditation." *Higher Education Policy* 25(6): 25–28.
- Council of Economic Advisers. 1995. *Economic Report of the President 1995*. Washington, D.C.: Government Printing Office.
- Crosson, Pierre R., and Jock R. Anderson. 1991. *Global Food: Resources and Prospects*. Washington, D.C.: World Bank.
- Dahlman, Carl J. 1993. "Electronics Development Strategy: The Robot Government." In Björn Wellenius, Arnold Miller, and Carl J. Dahlman, eds., *Developing the Electronics Industry*. Washington, D.C.: World Bank.
- . 1994. "Technology Strategy in East Asian Developing Economies." *Journal of Asian Economics* 5(Winter): 541–72.
- Dahlman, Carl J., and Ousa Sananikone. 1990. "Technology Strategy in the Economy of Taiwan: Exploiting Foreign Linkages and Investing in Local Capability." Industry and Energy Department, Policy Planning and Research, World Bank, Washington, D.C.
- Dahlman, Carl J., and Francisco C. Sercovich. 1984. "Local Development and Exports of Technology: The Comparative Advantages of Argentina, Brazil, India, the Republic of Korea, and Mexico." World Bank Staff Working Paper No. 667. World Bank, Washington, D.C.
- Dasgupta, Monica. 1994. "What Motivates Fertility Decline? A Case Study from Punjab, India." In B. Egero and M. Hamerskjöld, eds., *Understanding Reproductive Change*. Lund, Sweden: Lund University Press.
- Dasgupta, Partha, and Karl-Göran Mäler. 1994. "Poverty, Institutions, and the Environmental-Resource Base." Environment Paper No. 9. World Bank, Washington, D.C.
- Dasgupta, Susmita, Hua Wang, and David Wheeler. 1997. "Surviving Success: Policy Reform and the Future of Industrial Pollution in China." Working Paper No. 1856. Development Research Group, World Bank, Washington, D.C.
- Dasgupta, Susmita, and David R. Wheeler. 1997. "Citizen Complaints as Environmental Indicators: Evidence from China." Policy Research Working Paper No. WPS1704. Environment Department, Pollution Control and Waste Management, World Bank, Washington, D.C.
- Datt, Gaurav, and Martin Ravallion. 1998. "Farm Productivity and Rural Poverty in India." *Journal of Development Studies* 34(3): 62–85.
- Davenport, Thomas K., D. W. De Long, and Michael C. Beers. 1998. "Successful Knowledge Management Projects." *Sloan Management Review* 39(1): 43–57.
- Davenport, Thomas K., and Laurence Prusak. 1998. *Working Knowledge: How Organizations Manage What They Know*. Boston, Mass.: Harvard Business School Press.
- David, Paul A. 1993. "Knowledge, Property, and the System Dynamics of Technological Change." In Lawrence M. Summers and Shekhar Shah, eds., *Proceedings of the World Bank Annual Conference on Development Economics*. Washington, D.C.: World Bank.
- Davis, Lance E., and Robert J. Cull. 1994. *International Capital Markets and American Economic Growth: 1820–1914*. Cambridge, U.K.: Cambridge University Press.

- Deininger, Klaus, Lyn Squire, and Swati Basu. Forthcoming. "Does Economic Analysis Improve the Quality of Foreign Assistance?" *World Bank Economic Review*.
- Demirgüç-Kunt, A., and E. Detragiache. 1998. "Financial Liberalization and Financial Fragility." In *Annual World Bank Conference on Development Economics*. Washington, D.C.: World Bank.
- Denison, Edward F. 1962. *The Sources of Economic Growth in the United States and the Alternatives before Us*. New York, N.Y.: Committee for Economic Development.
- . 1985. *Trends in American Economic Growth, 1929–1982*. Brookings Institution: Washington, D.C.
- Deolalikar, Anil, and Robert Evenson. 1990. "Private Inventive Activity in Indian Manufacturing: Its Extent and Determinants." In R. E. Evenson and G. Ranis, eds., *Science and Technology: Lessons for Development Policy*. Boulder, Colo.: Westview Press.
- Desisto, R., and K. Harris. 1998. "Powerful Marketing and Sales Solutions with KM." Research Note KM: SPA-04-1863. Gartner Group, Stamford, Conn.
- Devarajan, Shantayanan, Vinaya Swaroop, and Heng-fu Zou. 1996. "The Composition of Public Expenditure and Economic Growth." *Journal of Monetary Economics* 37(2): 313–44.
- Dia, Mamadou. 1995. *Africa's Management and Beyond: Reconciling Indigenous and Transplanted Institutions*. Washington, D.C.: World Bank.
- Dilley, Maxx. 1997. "Climatic Factors Affecting Annual Maize Yields in the Valley of Oaxaca, Mexico." *International Journal of Climatology* 17(3): 1549–57.
- Dimitri, Carolyn. 1997. "Grower-Wholesaler Fruit Marketing Contracts in the Early 1900s: A Rationale for Institutional Innovation." Agriculture and Resource Economics Department, University of Maryland, College Park, Md.
- Downing, Robert J., Ramesh Ramankutty, and Jitendra J. Shah. 1997. *RAINS-ASIA. An Assessment Model for Acid Deposition in Asia*. Directions for Development Series. Washington, D.C.: World Bank.
- Drèze, Jean, Peter Lanjouw, and Naresh Sharma. 1997. "Credit in Rural India: A Case Study." DERP Working Paper No. 6. Suntory and Toyota International Centres for Economics and Related Disciplines, London School of Economics, London.
- Drèze, Jean, and Amartya Sen, eds. 1989. *Hunger and Public Action*. Oxford, U.K.: Oxford University Press.
- Easterly, William. 1997. "The Ghosts of Financing Gap: How the Harrod-Domar Growth Model Still Haunts Development Economics." Policy Research Working Paper No. 1807. World Bank, Washington, D.C.
- Easterly, William, and Ross Levine. 1996. "Africa's Growth Tragedy: Policies and Ethnic Division." Discussion Paper No. 536. Harvard Institute for International Development, Cambridge, Mass.
- Easterly, William, Ross Levine, and Lant Pritchett. Forthcoming. "Stylized Facts and the Growth Models Who Love Them." Development Research Group, World Bank, Washington, D.C.
- Enos, John. 1991. *The Creation of Technological Capability in Developing Countries*. London, U.K.: Pinter.
- Ergas, H., M. Goldman, E. Ralph, and G. Felker. 1997. *Technology Institutions and Policies: Their Role in Developing Technological Capability in Industry*. World Bank Technical Paper No. 383. World Bank, Washington, D.C.
- ESMAP (Energy Sector Management Assistance Programme). 1991a. "Republic of Yemen. Household Energy Strategy Study, Phase I. A Preliminary Study of Northern Governorates." Report No. 126/91. World Bank, Washington, D.C.
- . 1991b. "Rwanda: Commercialization of Improved Charcoal Stoves and Carbonization Techniques." Mid-Term Progress Report No. 141/91. World Bank, Washington, D.C.
- Esrey, Steven A. 1990. *Health Benefits from Improvements in Water Supply and Sanitation: Survey and Analysis of the Literature of Selected Diseases*. Technical Report No. 66. Arlington, Va.: Water and Sanitation for Health Project.
- Ethier, W. J., and J. R. Markusen. 1996. "Multinational Firms, Technology Diffusion, and Trade." *Journal of International Economics* 41(1): 1–28.
- European Commission. 1994. *The European Report on Science and Technology Indicators*. Brussels.
- Evans, Philip B., and Thomas S. Wurster. 1997. "Strategy and the New Economics of Information: Competing in the Information Economy." *Harvard Business Review* 75(9): 71–82.
- Evenson, Robert L., and Larry Westphal. 1995. "Technological Change and Technology Strategy." In Jere Behrman and T. N. Srinivasan, eds., *Handbook of Development Economics*, vol. 3A. Amsterdam: Elsevier.
- FAO (Food and Agriculture Organization). Various years. *FAO Production Yearbook*. Rome.
- Feder, Gershon. 1991. "Land Tenure and Property Rights: Theory and Implications for Development Policy." *World Bank Economic Review* 5(1): 135–53.
- Feder, Gershon, Tongroj Onchan, and Tejaswi Raparla. 1986. *Land Ownership, Security, and Access to Credit in Rural Thailand*. Discussion Paper No. ARU 53. Washington, D.C.: World Bank.
- Filmer, Deon. 1997. "The Socioeconomic Correlates of Sexual Behavior: Results from an Analysis of DHS Data." Development Research Group, World Bank, Washington, D.C.
- Filmer, Deon, and Lant Pritchett. 1997. *Child Mortality and Public Spending on Health: How Much Does Money Matter?* Policy Research Working Paper No. 1864. Washington, D.C.: World Bank.
- Fisher, Anthony C., and W. Michael Hanemann. 1986. "Option Value and the Extinction of Species." *Advances in Applied Micro-Economics* 4: 169–90.
- . 1990. "Option Value: Theory and Measurement." *European Review of Agricultural Economics* 17(2): 167–80.
- Foster, Andrew, and Mark Rosenzweig. 1993. "Information Flows and Discrimination in Labor Markets in Rural Areas in Developing Countries." In Lawrence H. Summers and Shekhar Shah, eds., *Proceedings of the World Bank Annual Conference on Development Economics 1992*. Washington, D.C.: World Bank.
- . 1995. "Learning by Doing and Learning from Others: Human Capital and Technical Change in Agriculture." *Journal of Political Economy* 103(6): 1176–1209.
- . 1996. "Technical Change and Human Capital Returns and Investments: Evidence from the Green Revolution." *American Economic Review* 86(4): 931–53.

- Frankenberg, Elizabeth. 1995. "The Effects of Access to Health Care on Infant Mortality in Indonesia." *Health Transition Review* 5(1): 143–63.
- Freixas, X., and J.-C. Rochet. 1997. *Microeconomics of Banking*. Cambridge, Mass.: MIT Press.
- Froot, Kenneth, Paul O'Connell, and Mark Seasholes. 1998. "The Portfolio Flows of International Investors." Paper presented at the CEPR/World Bank Conference, London, May 8–9.
- Garber, P. 1998. "Derivative Products in Exchange Rate Crises." In Reuven Glick, ed., *Managing Capital Flows and Exchange Rates: Lessons from the Pacific Basin*. New York, N.Y.: Cambridge University Press.
- Garcia, Gillian. 1996. "Deposit Insurance: Obtaining the Benefits and Avoiding the Pitfalls." Working Paper No. 96/83. International Monetary Fund, Washington, D.C.
- Ghatak, Maitreesh. 1996. "Strategic Complementarities in Discriminatory Behavior." Department of Economics, University of Chicago.
- Glewwe, Paul. 1997. "How Does Schooling of Mothers Improve Child Health? Evidence from Morocco." LSMS Working Paper No. 128. World Bank, Washington, D.C.
- . 1998. *The Economics of School Quality Investments in Developing Countries: An Empirical Study of Ghana*. London, U.K.: Macmillan Press.
- Glewwe, Paul, and Hanan Jacoby. 1995. "Economic Analysis of Delayed Primary School Enrollment in a Low-Income Country: The Role of Early Childhood Nutrition." *Review of Economics and Statistics* 77(2): 156–69.
- Glewwe, Paul, Michael Kremer, and Sylvie Moulin. 1997. "Textbooks and Test Scores: Evidence from a Prospective Evaluation in Kenya." Development Research Group, World Bank, Washington, D.C.
- Gould, David M., and William C. Gruben. 1996. "The Role of Intellectual Property Rights in Economic Growth." *Journal of Development Economics* 48(3): 328–50.
- Grabowski, Richard. 1994. "The Successful Developmental State: Where Does It Come From?" *World Development* 22(3): 413–22.
- Greif, Avner. 1994. "Cultural Beliefs and the Organization of Society: A Historical and Theoretical Reflection on Collectivist and Individualist Societies." *Journal of Political Economy* 102(5): 912–50.
- . 1996. "Contracting, Enforcement, and Efficiency: Economics Beyond the Law." In Michael Bruno and Boris Pleskovic, eds., *Annual World Bank Conference on Development Economics*. Washington, D.C.: World Bank.
- Grosh, Margaret E. 1992. "Jamaican Food Stamps Programme: A Case Study in Targeting." *Food Policy* 17 (February): 23–40.
- Grossman, S. J., and J. Stiglitz. 1980. "On the Impossibility of Informationally Efficient Markets." *American Economic Review* 70(3): 393–408.
- Haggard, Stephan, J. McMillan, and C. Woodruff. 1996. "Trust and Search in Vietnam's Emerging Private Sector." Discussion Paper Series No. 1506. Center for Economic Policy Research, University of California at San Diego, San Diego, Calif.
- Handel, M. D., and J. S. Risbey. 1992. *An Annotated Bibliography on Greenhouse Effect Change*. Report No. 1. Center for Global Change Science. Cambridge, Mass.: Massachusetts Institute of Technology.
- Hanna, Nagy K. 1991. *The Information Technology Revolution and Economic Development*. World Bank Discussion Paper No. 120. Washington, D.C.: World Bank.
- Hanushek, Eric A. 1995. "Schooling, Labor Force Quality, and Economic Growth." NBER Working Paper No. 5399. National Bureau of Economic Research, Cambridge, Mass.
- Hanushek, Eric A., and Dongwook Kim. 1996. "Schooling, Labor Force Quality, and the Growth of Nations." University of Rochester and Korea Development Institute.
- Harding, Ann. 1995. "Financing Higher Education: An Assessment of Income-Contingent Loan Options and Repayment Patterns over the Life-Cycle." *Education Economics* 3(2): 173–231.
- Harris, Robert G., and C. Jeffrey Kraft. 1997. "Meddling Through: Regulated Local Telephone Competition in the United States." *Journal of Economic Perspectives* 11(4): 93–112.
- Harrison, Mark. 1997. "Government Financing of Higher Education in Australia: Rationale and Performance." *Australian Economic Review* 30(2): 225–39.
- Hazell, Peter B. R., and C. Ramasamy, with contributions by P. K. Aiyasamy and others. 1991. *The Green Revolution Reconsidered: The Impact of High-Yielding Rice Varieties in South India*. Baltimore, Md.: Johns Hopkins University Press.
- Heggie, Ian Graeme. 1995. *Managing and Financing Roads: An Agenda for Reform*. World Bank Technical Paper No. 275. Washington, D.C.: World Bank.
- Hellman, T., K. Murdock, and J. Stiglitz. 1997. "Financial Re-strait: Towards a New Paradigm." In M. Aoki, M. Okuno-Fujiwara, and H. Kim, eds., *The Role of Government in East Asian Economic Development: Comparative Institutional Analysis*. New York, N.Y.: Oxford University Press.
- Heyneman, Stephen J. 1998. "From the Party/State to Multi-Ethnic Democracy: Education and Its Influence on Social Cohesion in the Europe and Central Asia Region." Europe and Central Asia Regional Office, Human Development Sector Unit, World Bank, Washington, D.C.
- Hoff, Karla. 1994. Book review of Anne Krueger's *Political Economy of Policy Reform in Developing Countries* (MIT Press). *Journal of Economic Literature* 32(3): 1933–34.
- . 1996. "Market Failures and the Distribution of Wealth: A Perspective from the Economics of Information." *Politics and Society* 24: 411–32.
- . 1998. "Adverse Selection and Institutional Adaptation." Department of Economics Working Paper 98-2. Department of Economics, University of Maryland, College Park, Md.
- Hoff, Karla, Avishay Braverman, and Joseph E. Stiglitz, eds. 1993. *The Economics of Rural Organization: Theory, Practice, and Policy*. London, U.K.: Oxford University Press.
- Hoff, Karla, and Andrew Lyon. 1995. "Non-Leaky Buckets: Optimal Redistributive Taxation and Agency Costs." *Journal of Public Economics* 58(3): 365–90.
- Hoff, Karla, and Joseph E. Stiglitz. 1990. "Imperfect Information and Rural Credit Markets—Puzzles and Policy Perspectives." *World Bank Economic Review* 4(3): 235–50.
- Hope, Kerin. 1997. "Albania Has Only 1.4 Fixed-Wire Telephones for Every 100 Inhabitants." *Financial Times*, February 19.
- Hunter, R. 1998. "KM in Government: This is Not the Consulting Industry." Research Note KM: KA-03-6492. Gartner Group, Stamford, Conn.

- IENTI Telecommunication Reform Database. [www.worldbank.org/html/fpd/ienti/ienti/html](http://www.worldbank.org/html/fpd/ienti/ienti/html).
- IMF (International Monetary Fund). Various years. *International Financial Statistics*. Washington, D.C.
- International Fund for Agricultural Development. 1994. "Interim Evaluation Report." Rome.
- Isham, Jon, Deepa Narayan, and Lant Pritchett. 1995. "Establishing Causality with Subjective Data." *World Bank Economic Review* 9(2): 175–200.
- Jacoby, Hanan. 1994. "Borrowing Constraints and Progress through School: Evidence from Peru." *Review of Economics and Statistics* 76(2): 151–60.
- Jäger, Jill. 1992. "From Conference to Conference." *Climatic Change* 20: iii–vii.
- Jakoby, Hannan, and Emmanuel Skoufias. 1997. "Risk, Financial Markets, and Human Capital in a Developing Country." *Review of Economic Studies* 64(3): 311–35.
- Jalan, Jvotsna, and Martin Ravallion. 1998. "Are the Poor Less Well Insured? Evidence on Vulnerability to Income Risk in Rural China." Policy Research Working Paper No. 1863. Development Research Group, World Bank, Washington, D.C.
- James, Christopher. 1987. "Some Evidence on the Uniqueness of Bank Loans." *Journal of Financial Economics* 19(2): 217–36.
- James, Estelle. 1991. "Private Higher Education: The Philippines as a Prototype." *Higher Education* 21(2): 189–206.
- Jejeebhoy, Shireen. 1995. *Women's Education, Autonomy, and Reproductive Behaviour*. Oxford, U.K.: Clarendon Press.
- Jimenez, Emmanuel, and Marlaine E. Lockheed, eds. 1991. "Private versus Public Education: An International Perspective." *International Journal of Educational Research* 15(5): 353–498.
- Jimenez, Emmanuel, Marlaine E. Lockheed, and Vicente Paqueo. 1991. "Relative Efficiency of Private and Public Schools in Developing Countries." *World Bank Research Observer* 6(7): 205–18.
- Jimenez, Emmanuel, and Yasuyuki Sawada. 1998. "Do Community-Managed Schools Work? An Evaluation of El Salvador's EDUCO Program." Working Paper Series on Impact Evaluation of Education Reforms, Paper No. 8. Development Research Group, World Bank, Washington, D.C.
- Jimenez, Emmanuel, and Jee-Peng Tan. 1987. *Selecting the Brightest for Post-Secondary Education in Colombia: The Impact on Equity*. Discussion Paper No. EDT 61. Washington, D.C.: World Bank.
- Jorgenson, Dale, and Zvi Griliches. 1966. "Sources of Measured Productivity Change." *Review of Economic Studies* 34(99): 249–82.
- Jorion, P. 1997. *Value at Risk: The New Benchmark for Controlling Market Risk*. Chicago: Irwin Professional Publishers.
- Kane, E. J. 1994. "Difficulties of Transferring Risk-Based Capital Requirements to Developing Countries." Policy Research Working Paper No. 1244. Policy Research Department, Finance and Private Sector Development Division, World Bank, Washington, D.C.
- Khandker, Shahidur K. R., Baqui Khalily, and Zahed Khan. 1998. *Grameen Bank: Performance and Sustainability*. World Bank Discussion Paper No. 306. Washington, D.C.: World Bank.
- Kim, Hyung-ki, and Jun Ma. 1997. "The Role of Government in Acquiring Technological Capability: The Case of the Petrochemical Industry in East Asia." In Masahiko Aoki, Kyung-Ki Kim, and Masahiro Okuno-Fujiwara, eds., *The Role of Government in East Asian Economic Development: Comparative Institutional Analysis*. New York, N.Y.: Oxford University Press.
- Kim, Jong-Il, and Lawrence J. Lau. 1992. "Sources of Economic Growth of the Newly Industrialized Countries on the Pacific Rim." CEPR Publication No. 295. Center for Economic Policy and Research, Stanford University, Stanford, Calif.
- Kim, K., and D. Leipziger. 1993. "Korea: The Lessons of East Asia—A Case of Government Led Development." Report No. 12481. World Bank, Washington, D.C.
- Kim, K., and J. K. Park. 1985. *Sources of Economic Growth in Korea*. Seoul: Korea Development Institute.
- Kim, Linsa. 1997. *Imitation to Innovation: The Dynamics of Korean Technological Learning*. Boston, Mass.: Harvard Business Review Press.
- King, Elizabeth M. 1990. "Does Education Pay in the Labor Market? Women's Labor Force Participation, Occupation, and Earnings in Peru." LSMS Working Paper No. 67. World Bank, Washington, D.C.
- King, Elizabeth M., and M. Anne, eds. 1993. *Women's Education in Developing Countries: Barriers, Benefits, and Policies*. Baltimore, Md.: Johns Hopkins University Press.
- King, Elizabeth M., and Berk Ozler. 1998. "What's Decentralization Got to Do with Learning? The Case of Nicaragua's School Autonomy Reform." Working Paper Series on Impact Evaluation of Education Reforms Paper No. 9. Development Research Group, World Bank, Washington, D.C.
- Kiyotaki, Nobuhiro, and John Moore. 1997. "Credit Cycles." *Journal of Political Economy* 105(2): 211–48.
- Klenow, Peter J., and Andrés Rodríguez-Clare. 1997a. "Economic Growth: A Review Essay." *Journal of Monetary Economics* 40(December): 597–617.
- . 1997b. "The Neoclassical Revival in Growth Economics: Has It Gone Too Far?" In *NBER Macroeconomics Annual for 1997*. Cambridge, Mass.: MIT Press.
- Klitgaard, Robert. 1991. *Adjusting to Reality: Beyond "State versus Market" in Economic Development*. San Francisco, Calif.: Institute for Contemporary Studies Press.
- Knack, Stephen, and Philip Keefer. 1997. "Does Social Capital Have an Economic Payoff? A Cross-Country Investigation." *Quarterly Journal of Economics* 112(4): 1251–88.
- Knight, John B., and Richard H. Sabot. 1990. *Education, Productivity, and Inequality: The East African Natural Experiment*. New York, N.Y.: Oxford University Press.
- Knowles, James, Jere R. Behrman, Benjamin E. Dikono, and Keith McInnes. 1998. "Key Issues in the Financing of Viet Nam's Social Services." In *Financing of Social Services Project: Report to the Government of Viet Nam and the Asian Development Bank*. Bethesda, Md.: Abt Associates.
- Kranton, Rachel. 1996. "Reciprocal Exchange: A Self-Sustaining System." *American Economic Review* 86(4): 830–51.
- Krueger, Anne O. 1993. *Political Economy of Policy Reform in Developing Countries*. Cambridge, Mass.: MIT Press.
- Krugman, Paul. 1994. "Myth of Asia's Miracle." *Foreign Affairs* 73(November–December): 62–78.
- Kulik, James A., Chen-Lin C. Kulik, and Robert L. Baangert-Drowns. 1985. "Effectiveness of Computer-Based Education in Elementary Schools." *Computers in Human Behavior* 1(1): 59–74.

- Kuran, T. 1989. "The Craft Guilds of Tunis and Their Amins: A Study in Institutional Atrophy." In M. K. Nabli and J. B. Nugent, eds., *The New Institutional Economics and Development: Theory and Applications to Tunisia*. Amsterdam: North Holland.
- Laffont, Jean-Jacques, and Mohamed Salah Matoussi. 1995. "Moral Hazard, Financial Constraints, and Sharecropping in El Oulja." *Review of Economic Studies* 62(3): 381–99.
- La Porta, Rafael, Florencia Lopez de Silanes, Andrei Shleifer, and Robert W. Vishny. 1996. "Law and Finance." Research Working Paper No. 5661. National Bureau of Economic Research, Cambridge, Mass.
- . 1997a. "Trust in Large Organizations." *American Economic Review* 87(3): 333–38.
- . 1997b. "Legal Determinants of External Finance." *Journal of Finance* 52(4): 1131–50.
- . 1998. "Agency Problems and Divided Policies Around the World." NBER Working Paper No. 6594. National Bureau of Economic Research, Cambridge, Mass.
- Laporte, Bruno, and Dena Ringold. 1997. *Trends in Education Access and Financing during the Transition in Central and Eastern Europe*. Washington, D.C.: World Bank.
- Lauglo, Jon, and Martin McLean, eds. 1985. *The Control of Education: International Perspectives on the Centralization-Decentralization Debate*. London, U.K.: Heinemann Educational Books.
- Lee, Y. S. 1996. "Technology Transfer and the Research University: A Search for the Boundaries of University-Industry Collaboration." *Research Policy* 25(6): 843–63.
- Levine, Ross. 1997. "Financial Development and Economic Growth: View and Agenda." *Journal of Economic Literature* 35(2): 688–727.
- . Forthcoming. "Law, Finance, and Economic Growth." *Journal of Financial Intermediation*.
- Levine, Ross, Norman Loayza, and Thorsten Beck. 1998. "Financial Intermediation and Growth: Causality and Causes." Development Research Group, World Bank, Washington, D.C.
- Levine, R., and D. Renelt. 1992. "A Sensitivity Analysis of Cross-Country Growth Regression." *American Economic Review* 82(4): 942–63.
- Levine, Ross, and Sara Zervos. 1998. "Stock Markets, Banks, and Economic Growth." *American Economic Review* 99(3): 537–58.
- Lewin, R. 1987. "Domino Effect Involved in Ice Age Extinctions." *Science* 238(4): 1509–10.
- Lin, Justin Yifu, and Jeffrey B. Nugent. 1995. "Institutions and Economic Development." In Jere R. Behrman and T. N. Srinivasan, *Handbook of Development Economics*, vol. 3A, pp. 2303–70. Amsterdam: North-Holland.
- López-Pereira, Miguel A., and Michael L. Morris. 1994. "Impacts of International Maize Breeding Research in the Developing World, 1966–9." Centro Internacional de Mejoramiento de Maíz y Trigo (CIMMYT with CGIAR), Mexico City.
- Lucas, Robert. 1988. "On the Mechanics of Economic Development." *Journal of Monetary Economics* 22(1): 3–42.
- Lutz, Ernst, and Julian Caldecott, eds. 1996. *Decentralization and Biodiversity Conservation*. Washington, D.C.: World Bank.
- Macro International. Various years. *Demographic Health Surveys* (Final reports, by country). Calverton, Md.
- McIntyre, Peter. 1998. *Puppeteers with a Purpose*. New York, N.Y.: UNICEF.
- Maddison, Angus. 1995. *Monitoring the World Economy, 1820–1992*. Paris: Development Centre of the OECD.
- Malhotra, R. 1995. "The Road Less Traveled: The Role of the Private Sector in MENA Development." Research paper for the Europe and Central Asia/Middle East and North Africa Technical, Private Sector, and Finance Division, World Bank, Washington, D.C.
- Mansell, Robin, and Uta Wehn. 1998. *Knowledge Societies: Information Technology for Sustainable Development*. New York, N.Y.: Oxford University Press.
- Mansfield, Edwin. 1994. *Intellectual Property Protection, Foreign Direct Investment and Technology Transfer*. Discussion Paper No. 19. Washington, D.C.: International Finance Corporation.
- . 1995. *Intellectual Property Protection, Direct Investment, and Technology Transfer: Germany, Japan, and the United States*. Discussion Paper No. 27. International Finance Corporation, Washington, D.C.
- Marshall, Alfred. 1890. *Principles of Economics*. Cambridge, U.K.: Cambridge University Press. Reprinted London, U.K.: Macmillan, 1961.
- Maskus, K. E., and M. Penubarti. 1995. "How Trade Related are Intellectual Property Rights?" *Journal of International Economics* 39(1): 227–48.
- Matsuyama, Kiminori. 1997. "Economic Development as Co-ordination Problems." In Masahiko Aoki, Kyung-Ki Kim, and Masahiro Okuno-Fujiwara, eds., *The Role of Government in East Asian Economic Development: Comparative Institutional Analysis*, pp. 134–60. New York, N.Y.: Oxford University Press.
- Mazzoleni, Roberto, and Richard Nelson. Forthcoming. "The Benefits and Costs of Stronger Patent Protection: A Contribution to Debate." World Bank, Washington, D.C.
- Meinzen-Dick, Ruth, Richard B. Reidinger, and Andrew Manzardo. 1995. "Participation in Irrigation." Participation Paper No. 003. Environment Department, World Bank, Washington, D.C.
- MELISSA (Managing the Environment Locally in Sub-Saharan Africa). 1998. [www.melissa.org](http://www.melissa.org).
- Menou, Michel J. 1998. "Studies of the Impact of Electronic Networking on Development: Report of the Mid-Project Meeting of the CABECA Survey of African Internet Use." Pan African Development Information System, Addis Ababa.
- Michie, R. C. 1977. *The London and New York Stock Exchanges 1850–1914*. London, U.K.: Allen & Unwin.
- Middleton, John, Adrian Ziderman, and Arvil Van Adams. 1993. *Skills for Productivity: Vocational Education and Training in Developing Countries*. New York, N.Y.: Oxford University Press.
- Mitchell, B. R. 1992. *International Historical Statistics: Europe, 1750–1970*. New York, N.Y.: Stockton Press.
- Moll, Peter. 1998. "Primary Schooling, Cognitive Skills, and Wages in South Africa." *Economica* 65: 263–84.
- Mookherjee, Dilip. 1996. "Informational Rents and Property Rights in Land." In John Roemer, ed., *Property Rights, Incentives, and Welfare*. London: Macmillan Press.

- Morduch, Jonathan. 1995. "Income Smoothing and Consumption Smoothing." *Journal of Economic Perspectives* 9(3): 103–14.
- . 1998. "The Microfinance Innovation." Department of Economics, Harvard University, Cambridge, Mass.
- Multimedia Development Corporation. 1998. *Unlocking the Full Potential of the Information Age*. Kuala Lumpur, Malaysia.
- Munshi, Kaivan, and Jacques Mayaux. 1998. "Social Effects in the Demographic Transition: Evidence from Matlab, Bangladesh." Boston University.
- Munshi, Kaivan D., and Kirit S. Parikh. 1994. "Milk Supply Behavior in India: Data Integration, Estimation, and Implications for Dairy Development." *Journal of Development Economics* 45(2): 201–23.
- Murphy, Kevin M., Andrei Shleifer, and Robert W. Vishny. 1992. "Transition to a Market Economy: Pitfalls of Partial Reform." *Quarterly Journal of Economics* 107(1): 889–906.
- Mytelka, Lynn K. 1985. "Stimulating Effective Technology Transfer: The Case of Textiles in Africa." In Nathan Rosenberg and Claudio Frischtak, eds., *International Technology Transfer*. New York, N.Y.: Praeger.
- Nagaoka, Sadeo. 1989. "Overview of Japanese Industrial Technology Development." Departmental Working Paper No. 10583. Industry Development Division, Industry and Energy Department, Policy Planning and Research, World Bank, Washington, D.C.
- Nalebuff, Barry, and Joseph E. Stiglitz. 1983. "Prizes and Incentives: Towards a General Theory of Compensation and Competition." *Bell Journal of Economics* 14(1): 21–43.
- Narayan, Deepa, and Lant H. Pritchett. 1995. "The Contribution of People's Participation: Evidence from 121 Rural Water Supply Projects." Report No. 14904. Environmentally and Socially Sustainable Development Work in Progress. World Bank, Washington, D.C.
- . 1997. "Cents and Sociability: Household Income and Social Capital in Rural Tanzania." Policy Research Working Paper No. 1796. World Bank, Washington, D.C.
- Nelson, Ridley. 1990. *Dryland Management: The "Desertification" Problem*. World Bank Technical Paper No. 116. Washington, D.C.: World Bank.
- Nordhaus, William D., and David Popp. 1997. "What is the Value of Scientific Knowledge? An Application to Global Warming Using the PRICE Model." *Energy Journal* 18(1): 1–45.
- North, Douglass. 1990. *Institutions, Institutional Change, and Economic Performance*. Cambridge, U.K.: Cambridge University Press.
- OECD (Organisation for Economic Co-operation and Development). 1994. *Environmental Indicators—OECD Core Set*. Paris.
- . 1996a. "Educational Policy Review: Korea." Directorate for Education, Employment, Labour, and Social Affairs, DEELSA/ED(96)9, Paris.
- . 1996b. "The Knowledge Based Economy." In *Science, Technology, and Industry Outlook*. Paris.
- . 1997a. *Eco-Labeling: Actual Effects of Selected Programmes*. Paris.
- . 1997b. *Processes and Production Methods (PPMs): Conceptual Framework and Considerations on Use of PPM-Based Trade Measures*. Paris.
- Olinto, Pedro. 1997. "Land Tenure Insecurity, Credit Rationing, and Household Asset Accumulation: Panel Data Evidence from Rural Paraguay." Ph.D. diss. University of Wisconsin-Madison.
- Olson, Mancur, Naveen Sarna, and Anand V. Swamy. 1997. "Governance and Growth: A Simple Hypothesis Explaining Cross-Country Differences in Productivity Growth." IRIS Working Paper. Center for Institutional Reform and the Informal Sector, University of Maryland, College Park, Md.
- Orazem, Peter, and Milan Vodopivec. 1995. "Winners and Losers in Transition: Returns to Education, Experience, and Gender in Slovenia." *World Bank Economic Review* 9(2): 201–30.
- Osin, Luis. 1998. "Computers in Education in Developing Countries: Why and How." Education and Technology Series, Paper No. 3(1). Human Development Department Education Group—Education and Technology Team, World Bank, Washington, D.C.
- Ostrom, Elinor. 1995. "Incentives, Rule of the Game, and Development." In Michael Bruno and Boris Pleskovic, eds., *Annual Bank Conference on Development Economics 1995*. Washington, D.C.: World Bank.
- Ostrom, Elinor, and Mary Beth Wertime. 1995. *IFRI Research Strategy*. International Forestry Resources and Institutions, Indiana University. <http://www.indiana.edu/~ifri/research/ifriestrat.htm>.
- Otsuka, K., H. Chuma, and Y. Hayami. 1992. "Land and Labor Contracts in Agrarian Economies." *Journal of Economic Literature* 30(4): 1965–2018.
- Pack, Howard. 1987. *Productivity, Technology, and Industrial Development: A Case Study in Textiles*. New York, N.Y.: Oxford University Press.
- Pack, Howard, and Larry Westphal. 1986. "Industrial Strategy and Technology Change: Theory versus Reality." *Journal of Development Economics* 22(1): 87–128.
- Parente, S. L., and E. C. Prescott. 1994. "Barriers to Technology Adoption and Development." *Journal of Political Economy* 102(2): 298–321.
- Perraton, Hilary, and Michael Potashnik. 1997. "Teacher Education at a Distance." Education and Technology Series 2(2). Human Development Department Education Group—Education and Technology Team, World Bank, Washington, D.C.
- Pezzey, John. 1989. "Economic Analysis of Sustainable Growth and Sustainable Development." Working Paper No. 15. Environment Department, World Bank, Washington, D.C.
- Plaza, S., and O. Sananikone. 1997. "Standardization and Competitiveness: Issues and Implications for Developing Countries." Private Sector Development Department, World Bank, Washington, D.C.
- Pritchett, Lant, and Deon P. Filmer. Forthcoming. "What Education Production Functions Really Show: A Positive Theory of Education Expenditures." *Economics of Education Review*.
- Psacharopoulos, George. 1994. "Returns to Investment in Education: A Global Update." *World Development* 22(9): 1325–43.
- Purcell, Dennis L., and Jock R. Anderson. 1997. "Agricultural Extension and Research: Achievements and Problems in National Systems." Operations Evaluation Study, World Bank, Washington, D.C.

- Quisumbing, Agnes R., Lynn R. Brown, Hillary S. Feldstein, L. Haddad, and Christine Pena. 1995. *Women: The Key to Food Security*. Washington, D.C.: International Food Policy Research Institute.
- Ram, M. 1990. "An Independent Press and Anti-Hunger Strategies." In Jean Drèze and Amartya Sen, eds., *The Political Economy of Hunger*, vols. 1, 2, and 3. Oxford, U.K.: Oxford University Press.
- Rapaczynski, Andrzej. 1996. "The Roles of the State and the Market in Establishing Property Rights." *Journal of Economic Perspectives* 10(2): 87–103.
- Rapp, Robert. 1975. "The Unmaking of the Mediterranean Trade Hegemony: International Trade Rivalry and the Commercial Revolution." *Journal of Economic History* 35(2): 499–525.
- Ray, Debraj. 1998. *Development Economics*. Princeton, N.J.: Princeton University Press.
- Reid, Walter V., ed. 1993. *Biodiversity Prospecting: Using Genetic Resources for Sustainable Development*. Washington, D.C.: World Resources Institute.
- Richels, R., J. Edmonds, H. Gruenspecht, and T. Wigley, with contributions from Henry Jacoby, A. Manne, S. Peck, T. Teisberg, M. Wise, and Z. Yang. 1996. "The Berlin Mandate: The Design of Cost-Effective Mitigation Strategies." Report of the Subgroup on the Regional Distribution of the Costs and Benefits of Climate Change Policy Proposals. Energy Modeling Forum No. 14. Stanford University, Stanford, Calif.
- Rischard, Jean-François. 1996. "Connecting Developing Countries to the Information Technology Revolution." *SAIS Review* 16(Winter/Spring): 93–107.
- Rodrik, Dani. 1998. "Who Needs Capital Account Convertibility?" John F. Kennedy School of Government, Harvard University, Cambridge, Mass.
- Romer, David. 1985. "Financial Intermediation, Reserve Requirements, and Inside Money: A General Equilibrium Analysis." *Journal of Monetary Economics* 16(9): 175–94.
- Romer, Paul M. 1990. "Endogenous Technological Change." *Journal of Political Economy* 98(October): S71–S102.
- . 1993. "Two Strategies for Economic Development: Using Ideas and Producing Ideas." In Lawrence M. Summers and Shekhar Shah, eds., *Proceedings of the World Bank Annual Conference on Development Economics*. Washington, D.C.: World Bank.
- Rosenberg, Nathan. 1982. *Inside the Black Box: Technology and Economics*. Cambridge, U.K.: Cambridge University Press.
- Rosenzweig, M., and T. P. Schultz. 1982. "Child Mortality and Fertility in Colombia: Individual and Community Effects." *Health Policy and Education* 2: 305–48.
- RPED (Regional Program on Enterprise Development). 1998. "Productivity Growth and Learning Mechanisms in Sub-Saharan Africa: Findings from the Regional Program on Enterprise Development." World Bank, Washington, D.C.
- Sadoulet, Elisabeth, Seiichi Fukui, and Alain de Janvry. 1994. "Efficient Share Tenancy Contracts under Risk: The Case of Two Rice-Growing Villages in Thailand." *Journal of Development Economics* 45(2): 225–43.
- Sah, Raaj K., and Joseph E. Stiglitz. 1989. "Sources of Technological Divergence between Developed and Less Developed Economies." In G. Calvo, R. Findlay, P. Kouri, and J. Braga de Macedo, eds., *Debt, Stabilization, and Development*. London, U.K.: Blackwell.
- Sarel, Michael. 1997. "Growth in East Asia: What We Can and What We Cannot Infer." *Economic Issues No. 1*. International Monetary Fund, Washington, D.C.
- Saunders, Robert, Jeremy Warford, and Björn Wellenius. 1993. *Telecommunications and Economic Development*. Baltimore, Md.: Johns Hopkins University Press.
- Schmalensee, Richard, Paul L. Joskow, A. Denny Ellerman, Juan Pablo Montero, and Elizabeth M. Bailey. 1997. "An Interim Evaluation of Sulfur Dioxide Emission Trading." Massachusetts Institute of Technology, Cambridge, Mass.
- Schneider, Robert R. 1995. "Government and the Economy on the Amazon Frontier." Environment Paper No. 11. World Bank, Washington, D.C.
- Schware, Robert, and Paul Kimberley. 1995. *Information Technology and National Trade Facilitation: Making the Most of Global Trade*. World Bank Technical Paper Nos. 316 and 317. World Bank, Washington, D.C.
- Serageldin, Ismail, and David Steeds, eds. 1996. *Rural Well-Being: From Vision to Action*. Washington, D.C.: World Bank.
- Shaban, Radwan Ali. 1987. "Testing between Competing Models of Sharecropping." *Journal of Political Economy* 95(5): 893–920.
- Shabbir, Tayyeb. 1991. "Sheepskin Effects in the Returns to Education in a Developing Country." *Pakistan Development Review* 30(1): 1–19.
- Siamwalla, A., C. Pinthong, N. Poapongsakorn, P. Satsanguan, P. Nettarayak, W. Mingmaneeakin, and Y. Tupbun. 1990. "The Thai Rural Credit System: Public Subsidies, Private Information, and Segmented Markets." *World Bank Economic Review* 4(2): 271–96.
- Silberman, James M., and Charles Weiss, Jr. 1992. "Restructuring for Productivity: The Technical Assistance Program of the Marshall Plan as a Precedent for the Former Soviet Union." Industry and Services Paper No. 64. Industry and Energy Department, World Bank, Washington, D.C.
- Smith, Craig S. 1997. "Stock Market Mania is Sweeping China; Speculators Abound." *Wall Street Journal*, August 27.
- Smith, Peter. 1995. "Subscribing to Monopoly. The Telecom Monopolist's Lexicon—Revisited." *Viewpoint* Note No. 53. Internal newsletter, Industry and Energy Department, World Bank, Washington, D.C.
- Solow, Robert. 1956. "A Contribution to the Theory of Economic Growth." *Quarterly Journal of Economics* 70(1): 65–94.
- Spiller, Pablo T., and Carlo G. Cardilli. 1997. "The Frontier of Telecommunications Deregulation: Small Countries Leading the Pack." *Journal of Economic Perspectives* 11(4): 127–38.
- Sternberg, Robert, and Elena Grigorenko. 1997. "Interventions for Cognitive Development in Children 0–3 Years Old." In Mary Emming Young, ed., *Early Child Development. Investing in the Future*. Amsterdam: Elsevier.
- Stiglitz, Joseph E. 1974. "Incentives and Risk Sharing in Sharecropping." *Review of Economic Studies* 41(1): 219–55.
- . 1989a. "Markets, Market Failures, and Development." *American Economic Review* 79(2): 197–203.
- . 1989b. "Rational Peasants, Efficient Institutions, and a Theory of Rural Organization: Methodological Remarks for Development Economics." In Pranab Bardhan, ed., *The Eco-*

- nomie Theory of Agrarian Institutions*. Oxford, U.K.: Clarendon Press.
- . 1993. "The Role of the State in Financial Markets." In *Proceedings of the Annual World Bank Conference on Development Economics*. Washington, D.C.: World Bank.
- . 1994. *Whither Socialism?* Cambridge, Mass.: MIT Press.
- . 1996. "Economic Growth Revisited." *Industrial and Corporate Change* 3(1): 65–110.
- . 1998. "Creating Competition in Telecommunications." Address to a Conference on Managing the Telecommunications Sector Post-Privatization, George Washington University, Washington, D.C., April 27.
- Stiglitz, Joseph E., and Andrew Weiss. 1981. "Credit Rationing in Markets with Imperfect Information." *American Economic Review* 71(3): 393–410.
- Subbarao, K., Aniruddha Bonnerjee, Jeanine Braithwaite, Soniya Carvalho, Kene Ezemenari, Carol Graham, and Alan Thompson. 1997. *Safety Net Programs and Poverty Reduction: Lessons from Cross-Country Experience*. Directions in Development Series. Washington, D.C.: World Bank.
- Summers, Robert, and Alan Heston. 1994. "Differential-Productivity Hypothesis and Purchasing-Power Parities: Some New Evidence." *Review of International Economics* 2(October): 227–43.
- Tan, Hong W., and Geeta Batra. 1995. "Enterprise Training in Developing Countries: Incidence, Productivity Effects, and Policy Implications." Working Paper No. 15373. World Bank, Washington, D.C.
- Tendler, Judith. 1994. "New Lessons from Old Projects: The Workings of Rural Development in Northeast Brazil." Operations Evaluation Study. World Bank, Washington, D.C.
- Tendler, Judith, and Sara Freedheim. 1994. "Trust in a Rent-Seeking World: Health and Government Transformed in Northeast Brazil." *World Development* 22(12): 1771–91.
- Thomas, Duncan, Victor Lavy, and John Strauss. 1996. "Public Policy and Anthropometric Outcomes in Côte d'Ivoire." *Journal of Public Economics* 61: 155–92.
- Thomas, Duncan, and John Strauss. 1992. "Prices, Infrastructure, Household Characteristics, and Child Height." *Journal of Development Economics* 39(10): 301–33.
- Thomas, Duncan, John Strauss, and Maria-Helena Henriques. 1991. "How Does Mother's Education Affect Child Height?" *Journal of Human Resources* 26(2): 183–211.
- Thomas, Vinod, Nalin M. Kishor, and Tamara C. Belt. 1997. *Embracing the Power of Knowledge for a Sustainable Environment*. Washington, D.C.: World Bank.
- Tietenberg, Tom. 1997. "Information Strategies for Pollution Control." Paper presented at the Eighth Annual Meetings of the European Association of Environmental and Resource Economists, Tilburg, The Netherlands. <http://www.colby.edu/personal/thtieten>.
- Tuck, Laura, and Kathy Lindert. 1996. *From Universal Food Subsidies to a Self-Targeted Program: A Case Study in Tunisian Reform*. World Bank Discussion Paper No. 351. Washington, D.C.: World Bank.
- 24 Hours in Cyberspace. 1996. "Emailing a Future: Loan Program Sows Hope in Vietnam and Cambodia." [www.cyber24.com/html/2\\_229.htm](http://www.cyber24.com/html/2_229.htm).
- Tzannatos, Zafiris, and Geraint Johnes. 1996. *Training and Skills Development in the East Asian NIC's: A Comparison and Lessons for Developing Countries*. PSP Discussion Paper Series. Washington, D.C.: World Bank.
- Udry, Christopher. 1994. "Risk, Insurance, and Default in a Rural Credit Market: An Empirical Investigation in Northern Nigeria." *Review of Economic Studies* 61(3): 495–526.
- UNCSTD (United Nations Commission on Science and Technology for Development). 1997. "Building Innovative Knowledge Societies for Sustainable Development." New York, N.Y.
- UNESCO (United Nations Education, Scientific, and Cultural Organization). 1996. *The World Science Report*. Paris.
- . 1997. *Statistical Yearbook*. Paris.
- . 1998. *World Education Report*. Paris: UNESCO Publishing.
- UNFCCC (United Nations Framework Convention on Climate Change). 1998. [www.unfccc.org](http://www.unfccc.org).
- UNICEF (United Nations Children's Fund). 1995. *The State of the World's Children: 1995*. New York, N.Y.: Oxford University Press.
- . 1997. *The State of the World's Children: 1997*. New York, N.Y.: Oxford University Press.
- UNIDO (United Nations Industrial Development Organization). 1995. *Trade Implications of International Standards for Quality and Environmental Management Systems ISO 9000/ISO 14000: Survey Results*. Vienna.
- United Kingdom Secretary of State for International Development. 1997. *Eliminating World Poverty: A Challenge for the 21st Century*. White Paper on International Development. London.
- USAID (U.S. Agency for International Development). 1993. "Policy Dialogue and Reform in the Education Sector." Advocacy Series, Education and Development. Washington, D.C.
- van der Gaag, Jacques, and Wim Vijverberg. 1989. "Wage Determinants in Côte d'Ivoire: Experience, Credentials, and Human Capital." *Economic Developments and Cultural Change* 27(2): 371–81.
- Vergara, W., and D. Babelon. 1990. *The Petrochemical Industry in Developing Asia*. World Bank Technical Paper No. 113. Industry and Energy Series. Washington, D.C.: World Bank.
- Wade-Barrett, Carmen. 1997. "Telecommunications of Jamaica Has Installed Some 160,000 Lines over the Last Three Years." Inter Press Service, June 30.
- Wang, Hua, and David Wheeler. 1996. "Pricing Industrial Pollution in China: An Econometric Analysis of the Levy System." Working Paper No. 1644. Policy Research Department, World Bank, Washington, D.C.
- Weiss, Andrew, and Georgiy Nikitin. 1998. "Performance of Czech Companies by Ownership Structure." Paper presented at the William Davidson Institute (University of Michigan) conference on Finance in Transition Economies. Boston University, May.
- Wellenius, Björn. 1997a. "Extending Telecommunications Service to Rural Areas—The Chilean Experience." *Viewpoint* (February) Note No. 105. Internal newsletter, Industry and Energy Department, World Bank, Washington, D.C.
- . 1997b. "Telecommunications Reform—How to Succeed: Public Policy for the Private Sector." *Viewpoint* (October) Note No. 130. Internal newsletter, Industry and Energy Department, World Bank, Washington, D.C.
- Werner, David, and David Sanders. 1997. *Questioning the Solution: The Politics of Primary Health Care and Child Survival*. Atlantic Highlands, N.J.: Zed Books.

- Wester, Gregory. 1993. "Vehicle Product Cycles and Their Market Effects." *Review of the U.S. Economy* (November): 47-51.
- Westphal, Larry E. 1990. "Industrial Policy in an Export-Propelled Economy: Lessons from South Korea's Experience." *Journal of Economic Perspectives* 4(4): 41-59.
- Westphal, Larry E., Yung W. Rhee, and Gary Pursell. 1981. "Korean Industrial Competence: Where It Came From." Staff Working Paper No. 469. World Bank, Washington, D.C.
- Weymes, R., ed. 1990. *Organic Farming—Is There a Future? Initial Results of a 1990 Canada-Wide Survey*. Proceedings of a conference on Transition to Organic Agriculture, University of Saskatchewan, Saskatoon, Saskatchewan.
- White, Eugene. 1997. "Deposit Insurance." In Gerard Caprio, Jr., and Dimitri Vittas, eds., *Reforming Financial Systems: Historical Implications for Policy*. New York, N.Y.: Cambridge University Press.
- WHO (World Health Organization). 1988. *Informatics and Telematics in Health: Present and Potential Uses*. Geneva.
- Willmott, Hugh. 1998. *Knowledge Management: A Real Business Guide*. London, U.K.: Caspian Publishing, Ltd.
- Woolcock, Michael. 1998. "Social Theory, Development Policy, and Poverty Alleviation: A Comparative-Historical Analysis of Group-Based Banking in Developing Economies." Ph.D. diss. Brown University, Department of Sociology.
- World Bank. 1991. "Peru: Poverty Assessment and Social Policies and Programs for the Poor." Report No. 11191-PE. Latin America and the Caribbean Region, Country Department 1, World Bank, Washington, D.C. <http://www.worldbank.org/lsmis>.
- . 1992. *World Development Report 1992: Development and the Environment*. New York, N.Y.: Oxford University Press.
- . 1993a. "Peru Poverty Assessment and Social Policies and Programs for the Poor." Macroeconomic Analysis Sector Report No. 11191. World Bank, Washington, D.C.
- . 1993b. *The East Asian Miracle: Economic Growth and Public Policy*. World Bank Policy Research Report. New York, N.Y.: Oxford University Press.
- . 1993c. *World Development Report 1993: Investing in Health*. New York, N.Y.: Oxford University Press.
- . 1994a. *Averting the Old Age Crisis*. World Bank Policy Research Report. New York, N.Y.: Oxford University Press.
- . 1994b. *World Development Report 1994: Infrastructure for Development*. New York, N.Y.: Oxford University Press.
- . 1995a. *Priorities and Strategies for Education: A World Bank Review*. Washington, D.C.: World Bank.
- . 1995b. *Vietnam Poverty Assessment and Strategy*. Washington, D.C.: World Bank.
- . 1996. *Rural Energy and Development: Improving Energy Supply for Two Billion People*. Washington, D.C.: World Bank.
- . 1997a. *Clean Water, Blue Skies: China's Environment in the Next Century*. Washington, D.C.: World Bank.
- . 1997b. *Confronting AIDS: Public Priorities in a Global Epidemic*. New York, N.Y.: Oxford University Press.
- . 1997c. *Expanding the Measure of Wealth: Indicators of Environmentally Sustainable Development*. Environmentally Sustainable Development Studies and Monographs Series No. 17. Washington, D.C.: World Bank.
- . 1997d. *Global Economic Prospects and the Developing Countries*. Washington, D.C.: World Bank.
- . 1997e. "Land Reform and Poverty Alleviation Pilot." Public Information Center (PIC) No. 4974. World Bank, Washington, D.C.
- . 1997f. "Science and Technology Reform Support: Project for Brazil." Project Appraisal Document No. 17178. World Bank, Washington, D.C.
- . 1997g. *World Development Indicators*. Washington, D.C.: World Bank.
- . 1997h. *World Development Report 1997: The State in a Changing World*. New York, N.Y.: Oxford University Press.
- . 1998a. *Latin America and the Caribbean: Education and Technology at the Crossroads*. Washington, D.C.: World Bank.
- . 1998b. NIPR (New Ideas in Pollution Regulation). <http://www.worldbank.org/nipr>.
- . 1998c. *Rethinking Aid: What Works, What Doesn't, and Why?* New York, N.Y.: Oxford University Press.
- . 1998d. *World Development Indicators*. Washington, D.C.: World Bank.
- . Forthcoming-(a). *Dividends and Disappointments: Learning from the Successes and Failures of Aid*. A World Bank Policy Research Report. Washington, D.C.: World Bank.
- . Forthcoming-(b). "The Expansion of Learning." World Bank, Washington, D.C.
- . Various years. *Living Standards Measurement Surveys*. Washington, D.C. World Bank.
- WorldSpace. 1998. "WorldSpace: The Technology." [www.worldspace.com/text/technology.html](http://www.worldspace.com/text/technology.html).
- Yamauchi, Futoshi. 1997. "Information, Neighborhood Effects, and the Investment in Human Capital: Learning School Returns in a Dynamic Context." Department of Economics, University of Pennsylvania, Philadelphia, Penn.
- Young, Alwyn. 1995. "The Tyranny of Numbers: Confronting the Statistical Realities of the East Asian Growth Experience." *Quarterly Journal of Economics* 110 (August): 643-80.
- Young, Mary Eming, ed. 1997. *Early Child Development. Investing in the Future*. Amsterdam: Elsevier.
- Yunus, Muhammad. 1996. "Socially Responsible Actions to Promote Rural Well-Being." In Ismail Serageldin and David Steeds, eds., *Rural Well-Being: From Vision to Action*. Washington, D.C.: World Bank.
- Zijp, Willem. 1994. *Improving the Transfer and Use of Agricultural Information. A Guide to Information Technology*. World Bank Discussion Paper No. 247. World Bank, Washington, D.C.
- Zongo, Gaston. 1997. "Impact Socioéconomique et Financier des Télécentres Privés." Paper presented to the ICTP/ITU Workshop on the Economic Quantification of the Impact of Telecommunications in Development, Trieste, Italy, February 26 and March 1.