Index

Note: Page numbers in bold indicates that a chapter begins on that page. The following abbreviations are used in page listings:
t. or tt. = table or tables  
f. or ff. = figure or figures

Accounting standards, 278–280, 280t., 293, 373n.4  
Account index, 124t., 128, 132  
Acquisitions. See Corporate takeovers  
Activity of banks, stock markets and other financial institutions, 106f.  
Agency problems, 144, 145. See also Governing policy  
Aivazian, V. et al., 351  
Allen, F., 8  
Allen, F., and D. Gale, 5, 7, 189  
Anglo-Saxon model, 143  
Anti-director index, 198–199t., 203, 206, 207, 212, 222–223t.  
Antitakeover measures, 169. See also Corporate takeovers  
Arellano, M., and S. Bond, 323  
Arellano, M., and O. Bover, 323  
Argentina, 86t., 110t., 276t., 208  
banking sector, 87t., 107t., 246t., 356  
corporate financing decisions, 250, 348, 351  
data sources, 39, 43  
debt maturity structure, 365, 366–369t., 370–371  
degree of dollarization, 348, 365, 370  
financial structure, 118t., 121t., 200–201t., 234t., 248t.  
firm-specific characteristics, 365, 368t.  
foreign bank assets, 87t.  
GDP and financial system efficiency, 86t., 96t., 103t., 105t.  
market capitalization, 87t., 118t., 275t.  
trade indicators, 87t., 113t., 115t., 118t.  
Argentina (tables by title)  
Argentina, 366–367t.  
Argentina (instrumental variables), 368–369t.  
Arrow, K., 148  
Asia. See also by country  
Asian crises (1997, 1998), 358t., 360t., 362t., 364, 367t., 372, 408  
Asian Tigers, 267, 268t., 270, 271, 272, 275t., 395  
domestic equity markets, 277  
East Asia, 370  
Australia, 92, 89t., 96t., 100, 226t.  
banking sector, 86t., 87t., 107t., 110t., 246t.  
data sources, 43  
financial structure, 118t., 119t., 121t., 200–201t., 234t., 248t.  
foreign bank assets, 87t.  
GDP and financial system efficiency, 86t., 96t., 103t., 105t., 114t.  
market capitalization, 87t., 118t.  
nonbank financial intermediaries, 86t., 107t., 110t.  
rule of law in, 203  
trade indicators, 87t., 114t., 116t., 118t.
Austria, 89t., 115, 225
as a bank-based system, 101, 103, 120, 248t.
banking sector, 86t., 87t., 107t., 1, 246t., 248t.
data sources, 39, 44–45
financial structure, 118t., 119t., 121t., 200–201t., 229t., 234t., 248t.
GDP and financial system efficiency, 86t., 96t., 103t., 105t., 106t., 113t.
market capitalization, 87t., 119t.
nonbank financial intermediaries, 86t., 107t., 110t.
rule of law in, 203
trade indicators, 87t., 113t., 115t., 119t.

Bahamas, 45
Balance-sheet items, 247, 248–249t., 249
Banco de Chile, 305
Banco de Santiago, 305
Bandiera, O. et al., 307
Bangladesh, 96t.
as a bank-based system, 120, 248t.
banking sector, 86t., 87t., 107t., 108t., 137n.5
data sources, 39
financial structure, 116, 118t., 121t., 200–201t., 229t., 234t.
GDP and financial system efficiency, 86t., 96t., 103t., 105t., 113t.
market capitalization, 87t., 118t.
nonbank financial intermediaries, 86t., 107t., 110t.
trade indicators, 87t., 113t., 115t., 118t.
Bank assets, 91t., 133f.
Bank-based systems, 83, 121t., 200–201t., 290–291, 356
bank performance in, 243, 250, 251t.
corporate financing decisions in, 347
debt leverage in, 170–173, 177–178
of developed countries, 117, 119–120
shortcomings of (view), 191
Bank-based systems (countries) Austria, 101, 103, 120, 248t.
Germany, 81, 103, 120, 179, 243, 248t.
Indonesia, 120, 248t., 356
Japan, 120, 143, 173, 177–179, 248t.
Portugal, 101, 103, 120
vs. market-vased, 248–49t.
Bank-based view of financial structure, 7, 143–144, 190
and external finance, 214–215
growth of firms and, 227
long-term relationships, 155–156, 350
Bank-based vs. market-based financial systems, 356f.
Bank-based vs. market-based systems, 81, 124–125t., 168, 347
capital flows, 347
Bank-centered model. See Bank-based systems; Bank-based view of financial structure
Bank concentration, 28f., 87t., 91t., 91, 279, 280t., 281–282
Bank credit measures, 197, 198–199t., 202
bank credit, 248–249t., 249, 250
bank credit vs. trading, 107t., 107–108t., 108t., 137n.5
Banking regulations, RESTRICT index, 124t., 129–130
Banking sector, 86t., 104, 106t., 107–108t., 108–109. See also Bank performance; Bank profitability; Central banks; Deposit money banks
bank assets, 84, 85, 90f., 91t., 133f.
bank concentration, 86t., 87t., 88t., 90f., 28f., 91t., 91, 279, 280t., 281–282
bank credit, 197, 198–199t., 202, 248–249t., 249, 250
bank debt, 174
bank/GDP ratio, 246, 248t., 249, 253t.
bank/stock trading ratio, 288t.
banks vs. capitalization measure, 100, 101f., 102–103t., 103–104, 105–106t., 131
development over time, 132, 133f., 134f., 134f., 310f., 310
private credit, 24f.
public bank share of high-income and low-income countries, 87t., 89t., 90f., 91t., 91
size of, 17, 246, 248t., 249
in underdeveloped countries, 117, 119–120, 137n.5
Banking sector (tables by title)
bank characteristics, 246–247t.
bank credit vs. trading, 107–108t.
bank interest margins and financial structure, 256t.
bank performance and financial structure, 251t.
bank profitability and financial structure, 253t.
banks vs. capitalization, 102–103t.
banks vs. other financial institutions, 105–106t.
Bank net interest margins, 85–91, 86t., 87t., 88t., 89t., 90f., 91t., 95, 111
financial structure and, 256t.
as a measure of bank performance, 244
Bank for International Settlement (BIS), 33, 76
across bank-based vs. market-based systems, 243, 244, 250, 251t.
data and methodology, 244, 245, 246t., 249, 250
Bank profitability
balance-sheet items, 247, 248–249t., 249
financial structure and, 243, 253t., 257–258
as measure of performance, 244
Net Margin/total assets ratio, 245, 246–247t., 247, 258
Overhead/total assets ratio, 245, 246–247t., 252, 253t., 256t., 258
Profit/total assets ratio, 245, 246–247t., 252, 258
Bankruptcy, 169–171, 174, 180–181
Bankscope database, IBCA, 27, 38, 78n.10, 245
Bank/stock trading index, 288t.
Bank/trading ratios, 107t., 107–108t., 137n.5, 289
emerging markets, 289
Banking vs. market capitalization, 100, 102–103t., 103–104, 105–106t., 131. See also Bank-based vs. market-based systems
Barbados
banking sector, 86t., 87t., 107t., 108t., 137n.5
data sources, 45
financial structure, 118t., 121t., 200–201t., 229t., 234t.
foreign bank assets, 87t.
GDP and financial system efficiency, 86t., 96t., 103t., 105t., 113t.
market capitalization, 87t., 118t.
nonbank financial intermediaries, 86t., 108t., 111t.
trade indicators, 87t., 113t., 115t., 118t.
Basch, M., and R. Fuentes, 311
Beck, T., A. Demirgüç, and R. Levine, 6, 17
Beck, T., A. Demirgüç, R. Levine, and V. Maksimovic, 189
Beck, T., and R. Levine, 191, 194, 221
Beck, T., R. Levine, and N. Loayza, 22
Belgium, 96t.
as a bank-based system, 120, 248t.
banking sector, 86t., 87t., 107t., 108t., 246t.
data sources, 39, 45–46
external finance/foreign bank assets, 87t., 276t.
financial structure, 118t., 121t., 200–201t., 229t., 234t., 248t., 275t.
GDP and financial system efficiency, 86t., 96t., 103t., 113t.
market capitalization, 87t., 118t., 275t.
nonbank financial intermediaries, 86t., 108t., 110t.
rule of law in, 203
trade indicators, 87t., 113t., 115t., 118t.
Belize, 46
Berger, P. G., E. Ofek, and D. L. Yermack, 170
Berglof, E., and E. Perotti, 166
Berle, A., and G. Means, 19
Bhide, A., 162, 190, 349
BIS (Bank for International Settlement), 33, 76
Black market(s), 138n.14
Bolivia
banking sector, 86t., 87t., 107t.
central bank assets, 86t., 248t., 249
data sources, 39, 46
financial structure, 118t., 121t., 200–201t., 229t., 234t., 248t.
GDP and financial system efficiency, 106t., 113t.
nonbank financial intermediaries, 86t., 107t., 110t.
trade indicators, 87t.
as a market-based system, 120, 248t., 249, 318–320, 319f., 320f.
mutual funds and financial societies, 317–318
nonbank financial intermediaries, 86t., 107t., 110t.
pension fund management companies (PFMCs), 315–316, 317f., 342
privatization of state enterprises, 306
prudential regulation period (1985–1990), 306
sales growth, 322t.
trade indicators, 87t., 115t., 313, 314t., 119t.
turnover ratio, 87t., 314–315, 315f.
Chilean banking sector, 86t., 107t., 300–301, 308–311, 309t., 310f., 311f., 338–340
banking crisis, 302, 305–306
central bank assets, 86t., 330
Chilean capital markets, 275t., 299–303, 306
market capitalization, 119t.
1997 capital market law, 307
Chilean financial system development credit boom, 309
data and methodology, 320, 321–323, 340–342
financial repression period (pre-1973), 304
financial liberalization index, 307, 308t.
Chile (figures by title)
bank activity, 310f.
bank efficiency, 311f.
bond market capitalization, 318f.
financial liberalization index, 308f.
financial market development, 309f.
financial structure (activity), 320f.
financial structure (efficiency), 321f.
financial structure (size), 319f.
pension funds development, 317f.
primary equity emissions/GDP, 312f.
stock market activity, 314f.
stock market efficiency (stockbroker efficiency), 316f.
stock market efficiency (turnover ratio), 315f.
stock market quantity index and GDP, 313f.
Chile (tables by title)
descriptive statistics, 322t.
firm growth: firm and macrofinancial effects, 337t.
firm investment and financing constraints (effects by types of firms), 326t.
firm investment and financing constraints (macrofinancial effects), 329t.
firm investment and financing constraints (the 1990s effect), 328t.
ratio of long-term to short-term debt and macrofinancial effects, 334–335t.
financial structure, ratio of debt to equity (firm and macrofinancial effects), 332t.
China, 275t., 276t.
Chui, A., S. Titman, and K. C. John Wei, 377
Claesens, A. et al., 26, 380
Coase theorem, 148
Coffee, J. C., Jr., 152
Colombia, 39, 48–49, 96t., 204
banking sector, 86t., 87t., 107t., 108t., 137, 246t.
credit index, 203
economic integration, 275t., 276t.
fiscal policy, 203
financial structure, 118t., 121t., 200–2201t., 226t., 234t., 248t.
GDP and financial system efficiency, 86t., 96t., 103t., 105t., 113t.
market capitalization, 87t., 118t., 275t.
nonbank financial intermediaries, 108t., 111t.
trade indicators, 87t., 113t., 115t., 118t.
Colonialism, 159, 205
Common Law tradition, 6, 83, 122, 123, 124t., 132, 205
market orientation and, 123, 126
Compustat, 215
Contract enforcement, 7, 124t., 126–127, 259
Enforce index, 124t., 126–127, 132, 138n.10
Cooperative banks, 28
Corporate financing decisions, 7, 143, 144–146. See also Firm-level analyses in bank-based economies, 347
corporate ownership and, 161–167
financial structure and, 158–159, 373n.1
flexible finance options and, 174
in market-based economies, 347
transaction costs and, 7, 143
Corporate groups system, 144, 166, 377
family/political connections, 378, 379
Indonesian, 377
Japanese, 173, 178
study data and methodology, 380–382, 383–384t.
vs. individual firms, 377, 379–380, 408
whether a group factor exists, 380, 404–405
Corporate investor/management relationship, 148–150
Corporate ownership concentrated, 161
and corporate financing decisions, 161–167
diffuse/atomistic, 161, 174, 177
Corporate profitability, 144–145, 358t., 360t., 362t., 364
Corporate takeovers, 161–163, 167, 169, 174, 179
antitakeover measures, 169
hostile takeovers, 163, 168–169, 170, 173–174
market for, 173
Correlations of financial intermediary and equity market development with GDP per capita, 91t.
Correlations of overall size of the financial sector with GDP per capita, 99t.
Corruption, 83
Corrupt index, 124t., 127, 132
Costa Rica as a bank-based system, 120, 248t.
banking sector, 86t., 87t., 107t., 108t., 137n.5
data sources, 39
financial structure, 116, 118t., 121t., 200–201t., 226t., 234t.
foreign bank assets to total assets, 87t.
GDP and financial system efficiency, 86t., 96t., 103t., 106t., 113t.
market capitalization, 87t., 118t.
nonbank financial intermediaries, 107t., 110t.
trade indicators, 87t., 113t., 115t., 118t.
Cost of capital, 178–179. See also Corporate financing decisions; Debt issuance/debt markets for investor vs. entrepreneur, 150–151
Country effects in emerging markets, 352, 359t., 363t.
Country studies, 9–11, 297. See also Argentina; Chile; Emerging markets; Indonesia
Creditor protection, 7, 159, 174, 259
Creditor index, 198–199t., 202–203, 206, 211, 212, 222–223t.
CRIGHTS index, 124t., 126, 132, 138n.9
Cross-country comparisons, 4, 5, 8, 38–42, 42–75, 81, 141. See also High-income and low-income countries compared financial intermediaries, 23, 24ff.
financial structure and economic growth, 118–119t., 141
growth regressions, 205–207, 212
Customer and short-term funding/total assets ratio, 246–247t., 252, 253t., 258
Cyprus banking sector, 86t., 87t., 107t., 108t., 137n.5
financial structure, 118t., 121t., 200–2201t., 229t., 234t.
foreign bank assets, 87t.
GDP and financial system efficiency, 86t., 96t., 103t., 105t., 113t.
market capitalization, 87t., 118t.
nonbank financial intermediaries, 86t., 108t., 111t.
trade indicators, 87t., 113t., 115t., 118t.
Index

Database of international financial systems, 6, 17, 190
Database, Worldscope, 224
Data and methodology of analyses of bank performance across countries, 244, 245, 246t., 249, 250
cross-country growth regressions, 205–207, 212
emerging markets firm finance choices, 350–355
financial structure in Chile, 320, 321–323, 340–342
financial structure database (overall), 6, 17, 190
firm-level analyses, 194–195, 223–225, 227
firm studies in Indonesia, 40, 380–382, 383–384t.
industry-level analyses, 194–195, 213–216, 221
primary capital markets study, 266–267, 293–294
Data sources
financial structure database, 23, 27, 30, 33, 35–76
market capitalization, 75
primary capital markets, 76–78
Datastream, 380
Debt claims and debtholders, 126, 145–146, 155–156, 171, 267. See also Bankruptcy
Debt-equity financing ratios, 264, 281, 348, 352
Debt issuance/debt markets, 170–173, 292
collateralized/uncollateralized lending, 156, 158
debt-equity financing ratios, 264, 281, 348, 352
optimal debt ratio, 171
Debt leverage, and bank-based systems, 170–173, 177–178
Debt maturity structure, 352. See also Long-term finance; Short-term finance
Default, debt, 171, 173. See also Bankruptcy
Demirgüç-Kunt, A., and H. Huizinga, 243, 251
Demirgüç-Kunt, A., and V. Maksimovic, 176, 232, 243, 254, 351, 354
Denmark, 39, 49
banking sector, 86t., 87t., 107t., 246t.
financial structure, 119t., 121t., 200–201t., 226t., 234t., 248t.
GDP and financial system efficiency, 86t., 96t., 103t., 105t., 114t.
market capitalization, 87t., 119t.
net interest margin, 116t.
nonbank financial intermediaries, 86t., 107t., 110t.
rule of law in, 203
trade indicators, 87t., 114t., 116t., 119t.
Deposit insurance, 83, 124t., 130
Deposit money banks, 869t., 96t., 107t. See also Banking sector
assets, 24f., 119, 133f., 134f., 134
assets/central bank assets ratio, 24f.
assets/total financial assets ratio, 18, 19t., 21, 22, 24f.
claims of on private sector, 86t., 119, 133f., 134f., 134
of high-income and low-income countries compared, 845, 90f., 91t.
claims of on private sector/trade indicators, 107t.
sectors of high-income and low-income countries compared, 845, 90f., 91t.
Deregulation, 361, 378. See also Financial liberalization
Determinants of financial structure correlations, 125t.
means tests, 124t.
Developed vs. developing countries, 121t., 286t., 288t., 289, 377. See also Emerging markets; High-income and low income countries compared; Nonemerging markets; Under-developed financial systems
Development banks, 29, 94f.A,B
Dewenter, K. L., and V. A. Warther, 178
Diamond, D. W., 152, 172–173
Diversification discount, 179
Dividend disadvantage, 124t., 130
Dollarization, 348, 356, 370
Domestic bond markets, 271–272, 274, 286t., 287
Domestic equity markets, 267, 268t., 270, 286t.
Asian Tigers, 277
emerging markets, 290
Domestic financing capabilities, 225, 226t., 228t. investment, 152
vs. external financing, 264
Dominican Republic, 50
Domowitz, I., J. Glen, and A. Madhavan, 263, 264
Drug industry, 216

Earnings/assets ratio, 224, 247
East Asia, 370. See also Asia; and by country
Economic growth. See also Financial structure and economic growth; GDP per capita; Macroeconomic factors
Economic periods
Business Cycle estimate of growth rate, 282–283, 284t.
comparative, 144
components, 204
corporate groups and, 377
cross-country growth regressions, 205–207, 212
Growth measure, 253t., 256t.
legal factors and, 176–177
long-run growth, 207–208, 209t., 210t., 210, 211t.
Long-Term Growth estimate, 283–284, 284t., 285
new firm creation, 11–12, 219–221, 220–221t., 222–223t.
1986–1991 period, 284
1998 global crisis, 348
in Argentina (pre/post financial liberalization), 348, 364–365, 366–369t., 370–371
Asian crises (1997, 1998), 358t., 360t., 362t., 364, 367t., 372, 408
in Chile, 299–300, 301, 302, 303–307 emerging markets liberalization (late 1980s and 1990s), 347, 378
Indonesian financial crisis period, 386, 405
Mexican crisis (1995), 348, 358t., 360t., 362t., 364, 367t., 371–372 preliberalization vs. postliberalization periods in emerging markets, 351, 353, 358t., 360t., 362t., 364
Ecuador, 39, 49–50
banking sector, 86t., 87t., 107t., 108t., 137n.5, 246t.
credit index, 203
financial structure, 118t., 121t., 200–201t., 229t., 234t., 248t.
foreign bank assets, 87t.
GDP and financial system efficiency, 86t., 96t., 103t., 105t., 113t.
market capitalization, 87t., 118t.
nonbank financial intermediaries, 86t., 108t., 110t.
trade indicators, 87t., 113t., 115t., 118t.
Efficiency of financial systems, 196, 198–199t., 209t., 210t.
Efficiency and market structure of commercial banks, 28f.
Efficiency of stock markets vs. banks, 112f.
Egypt, 50–51
banking sector, 86t., 87t., 107t., 108t., 137n.5
credit index, 203
data sources, 40
financial structure, 118t., 121t., 200–201t., 226t., 234t.
GDP and financial system efficiency, 86t., 96t., 103t., 106t., 113t.
market capitalization, 87t., 118t.
nonbank financial intermediaries, 86t., 108t., 110t.
trade indicators, 87t., 113t., 115t., 118t.
El Salvador, 51
Emerging markets, 264–265, 267, 268t., 270–274, 275t., 286t., 288t.
access to international markets, 352, 371
asset tangibility (firm-level), 353, 361, 363, 371
bank/trading ratios, 289
bond markets in, 274, 275t., 277, 289
country effects in, 352, 359t., 363t.
debt/equity financing, 352, 356f., 357, 358t., 360t., 361, 362t.
development of, 47, 356f.
domestic equity in, 290
external vs. internal financing, 352
firm-specific characteristics, 352, 361, 371, 373
long-term debt/equity ratio, 356f., 358t., 360t., 362t., 364
macroeconomic factors, 352, 353
maturity structure of debt, 352, 357
preliberalization vs. postliberalization periods in, 351, 353, 358t., 360t., 362t., 364
retained earnings over total debt, 352, 358t., 360t., 362t.
short-term debt/equity ratio, 352, 356f., 358t., 360t., 362t., 364
short-term/total debt ratio, 356f., 358t., 360t., 362t.
study data and methodology, 350±355
Emerging Markets Database, IFC, 17, 33, 75, 351
Enforce (contract enforcement index), 124t., 126±127, 132, 138n.10
England. See United Kingdom
English Common law system. See Common Law tradition
Entrepreneurs, 146, 152±153. See also Corporate financing decisions; Corporate ownership
access to equity markets, 157
shareholders and, 164±166
Entry restrictions, 280t., 281
Equity issues/GDP ratio, 32–33
Equity markets/equities, 286t.
corporate financing decisions and, 158, 159
development over time, 93f., 30, 134, 135f., 136f.
domestic, 267, 268t., 270, 286t., 291t., 291
efficiency of compared to banks, 112f.
entrepreneurial access to, 157, 182n.17
equity issues and stock prices, 167±169
Equity/total assets (ta) ratio, 246–247t., 247, 253t., 256t., 258
of high-income and low-income countries compared, 91±95, 93t., 94f., 96–98t., 99t., 99f., 100
Evolution of financial systems. See Financial development
Excess finance measures, 229, 231t.
Exchange stabilization funds, 78n.4
External dependence across industries, 237t.5A.2
External finance. See also International capital markets
access to, 9, 11–12, 152, 191, 213–216, 263, 286t., 287
and bank-based view of financial structure, 214–215
cost of, 150–151
foreign bonds, 281, 286t., 287, 290
industry-level analysis of, 215–216, 218t., 220–221t., 221, 222–223t., 237t.5A.2
legal factors and, 176–177
External vs. domestic financing, 264, 352
Family companies. See Corporate groups system
Fauver, L., J. Houston, and A. Naranjo, 179
Fazzari, S. M., R. G. Hubbard, and B. C. Peterson, 178
Ficha Estadística Codificada Uniforme (FECU), 321, 340–344
Figures by title:
activity of banks, stock markets and other financial institutions, 106f.
bank-based vs. market-based financial systems, 356f.
Chile (see under Chile (figures by title)) efficiency and market structure of commercial banks, 28f.
efficiency of stock markets vs. banks, 112f.
equity markets development over time, 135f.3A.3
equity markets development over time, 136f.3A.4
financial intermediary development across income groups, 24f.
financial intermediary development in the 1990s, 90f.
financial intermediary development over time, 133f.3A.1
financial intermediary development over time, 134f.3A.2
financial structure index, 117f.
Indonesia (see under Indonesia (figures by title))
life insurance development across income groups, 31f.
nonbank financial intermediary development over the 1990s, 94f.
nonbank financial intermediary development over time, 137f.3A.5
overall size and efficiency of the financial system, 99f.
Figures by title (cont.)
private credit by other financial institutions across income groups, 31f.
relative size of bank, stock markets, and other financial institutions, 101f.
stock and bond market development across income groups, 34f.
stock market development over time, 34f.
Fiji, 51
Financial crisis. See Economic periods
Financial development, 11, 83, 195–196, 210t., 234–235t. See also Financial systems and economic growth, 4, 8–9, 208t., 238n., 243
financial structure distinguished from, 147–148
firm growth and, 220t., 227–229, 230t., 232
industry growth and, 218t.
legal environment or origin and, 211t., 234–236t.
over time, 132, 133t.
unbalanced, 212
Financial intermediaries. See also Banking sector; Nonbank financial intermediaries
activity level of, 104, 106f., 107–108t., 108–109
competition among, 154–155
correlation with GDP, 91t.
cross-country comparisons, 23, 24ff.
development over time, 23, 25f., 25
and equity market development across countries, 86–89t.
of high-income and low-income countries compared, 84, 868t., 86t., 90f., 90–91, 91t., 99t.
size of, 21–22, 85, 96–98t., 100–101, 102–103t., 103–104, 282
types of financial institutions, 18, 19–20t., 20–21, 153
Financial intermediaries (figures by title)
financial intermediary development across income groups, 24f.
financial intermediary development in the 1990s, 90f.
financial intermediary development over time, 134f.3a.1
financial intermediary development over time, 134f.3a.2
Financial liberalization
capital flows and, 377–378
in Chile, 300, 301, 304–305, 306–307, 319, 339
in emerging markets (late 1980s and 1990s), 347, 378
financial liberalization index, 307, 308t.
in Indonesia, 300, 377, 377, 382, 383, 385–386, 400, 403–404t., 404, 408
measures and indices of, 307, 308t., 351, 361
Financially developed economies, 121t.
Financial ratios, 275t.
financial structure and, 275t., 276t., 277, 278t., 280t., 284t., 285–291, 286t., 288t.
flation and, 284t., 284–285
privatization and, 291t.
Financial reforms, 379. See also Accounting standards; Legal environment
Financial services view, 190, 191–192, 210, 212, 233
and external finance, 215
and financial structure, 216, 217t., 219
Financial structure
across countries, 15, 83, 100, 121t., 138n.7, 197, 198–199t., 200–201t., 202, 234–236t.
and bank interest margins, 256t.
and bank profitability, 243, 251t., 257–258
and corporate financing decisions, 158–159, 373n.1
defined, 3, 143, 145, 146–148, 189
efficiency of, 95, 96–98t., 99t., 99t., 100, 109, 111–112
financial development distinguished from, 147–148
firm-level analyses of, 173–174, 186, 190, 238n.1
governing policy impact on, 7, 148, 153, 176–177, 292–293
industry-level analyses of, 186, 190, 219, 220–221t., 221, 222–223t.
legal environment or origin and, 234–236t.
major determinants of, 120, 122, 124–125t. (see also by individual factor, e.g., Banking sector; Legal environment)
mean financial ratios, 275t., 276t., 277, 278t., 280t., 284t., 285–291, 286t., 288t.
Financial structure database, 6, 17, 190
Financial structure and economic growth, 3, 11, 175–181, 189, 193–194, 208t., 209t., 233, 297. See also Firm-level analyses
attributes beneficial to corporate finance, 143, 173–174, 180–181
cross-country comparisons, 118–119t., 141
firm-level analyses, 223–225, 226t., 227, 228t., 229, 230t., 232–233
industry-level analyses, 212–113, 216–225, 217t., 218t., 220t., 222–223t., 226t.
legal-environment and, 211t.
long-run growth, 207–208, 209t., 210t., 210, 211t.
real GDP per capita and, 210t.
structure-activity measure, 197, 198–199t., 202, 208t., 209t., 217t., 218t., 219, 220–221t., 222–223t., 228t.
structure-aggregate measure, 197, 198–199t., 208t., 209t., 219, 228t.
structure-efficiency measure, 197, 198–199t., 202, 208t., 209t., 217t., 218t., 220–221t., 222–223t., 228t.
Structure index, 114–120, 117f., 118–119t., 121t., 123, 125t., 131–132, 248–249t., 250–255, 253t., 256t., 288t.
real GDP per capita and, 210t.
Financial structure and financial development and economic growth (OLS regressions), 208t.
financial structure, the legal environment and industry growth, 222t.
Financial systems. See also Banking sector; Emerging markets; Equity markets/equities; Financial development; Financial structure aggregate measures, 196, 198–199t., 209t., 210t., 218t., 220–221t., 222–223t., 230t., 231t.
efficiency measures, 196, 198–199t., 209t., 210t.
financial activity measures, 197, 198–199t., 207, 208t., 209t., 210t., 218t., 220–221t., 222–223t., 230t., 231t.
Financing ratios, debt-equity, 264, 281, 348, 352
Finland, 40, 51–52
banking sector, 86t., 107t., 108t., 246t.
financial structure, 118t., 121t., 200–201t., 229t., 234t., 248t.
foreign bank assets, 87t.
GDP and financial system efficiency, 96t., 103t., 105t., 113t.
market capitalization, 118t.
nonbank financial intermediaries, 86t., 108t., 110t.
rule of law in, 203
trade indicators, 87t., 113t., 115t., 118t.
Firm financing. See Corporate financing decisions
Firm growth across countries, 226t.
and financial development, 227–229, 230t., 231t., 232
the legal-based view and, 231t.
new firm creation, 11–12, 219, 220–221t., 221, 222–223t.
Firm-level analyses
access to external financing, 227, 358t., 360t., 362t.
Firm-level analyses (cont.)
corporate groups vs. individual firms, 377
data and methodology, 223–225, 227
dependence on external financing, 215–216, 218t.
and economic growth, 223–225, 226t., 227, 228t., 229, 230t., 232–233
of financial structure, 4, 12n.1, 173–174, 186, 190, 238n.1, 352
Firm life cycle, 151
Firm reputation, 152, 173–174
Firm-specific characteristics, 352, 361, 365, 368t., 371, 373
Firm value, 166, 168–170, 170
Fisman, R., 380
Fitch IBCA, 245
Foreign bank assets share, 87t., 89t., 90f., 19t., 91t., 91
Foreign bonds, 281, 286t., 287, 290
Foreign markets access, 158, 166
Foreign securities. See External finance
Foreign shocks, 350, 363t., 367t., 371–372
France, 40, 52
as a bank-based system, 120, 248t.
banking sector, 86t., 87t., 107t., 246t.
credit index, 203
financial structure, 118t., 121t., 200–201t., 226t., 234t., 248t.
foreign bank assets, 87t.
GDP and financial system efficiency, 86t., 96t., 103t., 105t., 114t.
market capitalization, 87t., 118t.
nonbank financial intermediaries, 86t., 107t., 110t.
trade indicators, 87t., 114t., 116t., 118t.
Gerschenkron, 7, 190
Ghana
banking sector, 86t., 107t.
data sources, 40
finance-activity, 196
financial structure, 118t., 119t., 121t., 200–201t., 226t., 234t., 248t.
foreign bank assets, 87t.
GDP and financial system efficiency, 97t., 113t.
market capitalization, 119t.
nonbank financial intermediaries, 86t., 107t., 110t.
trade indicators, 87t., 113t., 115t., 119t.
French civil law system, 7, 122–123, 124t., 132, 204
bank-based orientation and, 123, 126
Fuerst, O., 166–167
Full conditioning information set, 207, 211t., 238n.6
Fund dominance, 144
G4 countries, 267, 268t., 272, 275t. See also Germany; Japan; Nonemerging markets; United Kingdom; United States
bond markets in, 277
Gallego, F., L. Hernández, and K. Schmidt-Hebbel, 307
Gallego, F., and N. Loayza, 299
GDP per capita, 17, 868t., 96–98t., 102–103t., 105t., 113–114t., 210t., 253t., 256t. See also Economic growth; and by country
data sources, 75
percentage change in, 184t., 277, 282–284
General Motors (GM), 163
German civil law, 123, 204
Germany, 4, 92
as a bank-based system, 81, 103, 120, 179, 243, 248t.
banking sector, 86t., 87t., 100, 107t.
data sources, 40, 52
domestic bond markets, 274
external finance/foreign bank assets, 87t., 276t.
financial structure, 118t., 121t., 200–201t., 226t., 234t., 248t.
market capitalization, 87t., 118t., 275t.
nonbank financial intermediaries, 86t., 107t., 110t.
trade indicators, 87t., 114t., 116t., 118t.
Global financial crisis. See Economic periods
Globalization/integration, 145, 181, 272, 347, 371–372. See also International capital markets
GMM system estimator procedure, 323
Goldman Sach’s International Investment Research, 33, 75
Goldsmith, R. W., Financial Structure and Development, 3–5, 12
Gourinchas, P., O. Landerretche, and R. Valedés, 309
Governing policy, 377. See also
Institutional framework
agency problems, 144, 145
impact on financial structure, 7, 148, 153, 176–177, 292–293
policy conditioning information set, 207, 211t.
policy determinants of financial structure, 82, 131
Great Britain. See United Kingdom
Greece
banking sector, 86t., 87t., 107t., 246t.
data sources, 40, 53
external finance/foreign bank assets, 87t., 276t., 277
financial structure, 118t., 121t., 200–201t., 226t., 234t., 248t.
GDP and financial system efficiency, 86t., 96t., 97t., 103t., 105t., 113t.
market capitalization, 87t., 275t.
nonbank financial intermediaries, 86t., 107t., 110t.
trade indicators, 87t., 113t., 115t., 118t.
Gross domestic product. See GDP per capita
Grossman, S., and O. Hart, 161
Group firms. See Corporate groups system
Group-mean, 121t.
Growth regressions, cross-country, 205–207, 212
Growth. See Economic growth
Guatemala, 40, 53
banking sector, 246t.
financial structure, 248t.
Guyana, 53
Hansen, L. P., 206
Hellwig, M., 191
Henry, P. B., 377–378
Hidden action, 148–151, 180
Hidden information, 148–150, 153, 155, 165, 180. See also Information asymmetries
Higgins, R. C., 224
High-income and low-income countries compared. See also Developed vs. developing countries; Emerging markets; Nonemerging markets; Underdeveloped financial systems
bank-based vs. market-based, 101f., 100, 102–103t., 111, 131, 290
banking sectors, 246–247t., 247, 248–249t., 249, 258
efficiency of financial system, 95
financial development, 6, 84, 114–115
financial structure, 255, 257
nonbank financial and life insurance sectors, 30, 93
public bank share, 87t., 89t., 90f., 91t., 91
trading costs, 111
Honduras, 54
banking sector, 86t., 87t., 107t., 108t., 137n.5, 246t.
financial structure, 116, 118t., 121t., 200–201t., 226t., 234t., 248t.
GDP and financial system efficiency, 86t., 96t., 97t., 103t., 113t.
market capitalization, 87t., 118t.
nonbank financial intermediaries, 86t., 108t., 110t.
trade indicators, 87t., 113t., 115t., 118t.
Hong Kong, 92, 95
banking sector, 86t., 87t., 107t., 108 financial structure, 119t., 121t., 200–201t., 226t., 234t.
foreign bank assets, 87t.
GDP and financial system efficiency, 86t., 96t., 97t., 103t., 114t.
as a market-based system, 120, 248t.
market capitalization, 87t., 108, 119t.
nonbank financial intermediaries, 86t., 107t., 110t.
trade indicators, 87t., 111, 114t., 116t., 119t.
Hostile takeovers, 163, 168–169, 170
protection from, 173–174
Huybens, E., and B. Smith, 131
IBCA Bankscope database, 27, 38, 78n.10, 245
IBES (Institutional Brokers Estimate System), 380, 392
Iceland
banking sector, 86t., 107t., 108t.
financial structure, 118t., 119t., 121t., 200–201t., 226t., 234t.
foreign bank assets, 87t.
GDP and financial system efficiency, 96t., 97t., 113t.
nonbank financial intermediaries, 86t., 107t., 110t.
trade indicators, 87t., 113t.
ICRG, 203
IFC Emerging Markets Database, 17, 33, 75, 351
IFS (International Finance Statistics), 17, 30, 266
IMF (International Monetary Fund), 17, 35±38, 266
India, 40, 54
as a bank-based system, 120, 248t.
banking sector, 86t., 87t., 107t., 246t.
credit index, 203
external finance, 87t., 276t.
financial structure, 118t., 121t., 200–201t., 226t., 234t., 248t.
GDP and financial system efficiency, 86t., 96t., 97t., 103t., 105t., 113t.
market capitalization, 87t., 118t., 275t.
nonbank financial intermediaries, 86t., 110t.
trade indicators, 87t., 113t., 115t., 118t.
Indicators of financial development, structure and legal system across countries, 234 226t.5A.1
Indonesia
analyst coverage of corporate group vs. individual firms, 392, 393t., 394t., 394–395, 397–400, 404
as a bank-based system, 120, 248t., 356
banking sector, 86t., 87t., 107t., 108t., 246t.
corporate financing decisions, 348
corporate groups system v individual firms in, 377, 381–382, 383–384t., 385f., 385
data and methodology of studies on, 40, 380–382, 383–384t.
debt/equity ratios of corporate group vs. individual firms, 405, 406–407t.
efficiency of corporate group vs. individual firms, 291–292t., 298t., 395–400, 396t., 397–399t., 404
external finance/foreign bank assets, 87t., 276t., 277
financial crisis period, 386, 405
financial liberalization effects, 300, 377, 382, 383, 385–386, 400, 403–404t., 404, 408
financial structure, 118t., 121t., 200–201t., 226t., 234t., 248t.
GDP and financial system efficiency, 86t., 96t., 97t., 103t., 105t., 113t.
market capitalization, 87t., 118t., 120, 275t., 382
nonbank financial intermediaries, 86t., 110t.
price-earnings ratios of corporate group vs. individual firms, 393t., 395, 396t.
privatization of state enterprises, 378
stock market liquidity, 397–399, 398t.
trade indicators, 87t., 113t., 115t., 118t.
whether influenced by foreign markets (U.S. and Japan), 399, 401–404t., 404
Indonesia (figures by title)
ratios of market capitalization to GDP, 385f.
the value of one dollar invested at the end of 1989 (equally weighted/U.S. currency), 390f.10.3b
the value of one dollar invested at the end of 1989 (equally weighted/local currency), 390f.10.3a
the value of one dollar invested at the end of 1989 (value-weighted/local currency), 389f.10.2a
the value of one dollar invested at the end of 1989 (value-weighted/U.S. currency), 389f.10.2b
Indonesia (tables by title)
alyst coverage and EPS for value-weighted portfolios, 393t.
determinants of analysts coverage ratio, 394t.
Fama-MacBeth regressions on returns on firm size and group dummy, 391–392t.
leverage and growth rates of group and independent firms, 406–407t.
price-to-earnings ratio in (1990–98), 396t.
returns on value-weighted and equally weighted portfolios in different sample periods, 387–388t.
summary of characteristics of group and independent firms, 383–394t.
Industry-level analyses, 4, 186, 190, 219, 220–221t., 221, 222–223t.

data and methodology, 213–216, 221

economic growth and, 212–213, 216, 217t., 218t., 219, 220t., 221, 222–223t., 223–225, 226t.

external dependence on financing, 237t.5A.2

Inflation, 83, 124t., 130–131, 227, 253t., 256t., 282

mean financial ratios and, 284t., 284–285

and underdeveloped countries, 83

Information asymmetries, 7, 144, 167, 173, 178, 179

hidden information, 148–150, 153, 155, 165, 180

Information flow

corporate disclosure, 158, 166, 190

financial reform and, 379

Institutional Brokers Estimate System (IBES), 380, 392

Institutional framework, 263, 265, 277–282, 280t., 282. See also Governing policy; Legal environment


Interest rate, 143

Internal financing. See Domestic financing

International capital markets, 273–274, 277, 300, 347. See also Globalization/integration

bond markets, 269t., 273, 281

Chilean access to, 10, 300, 340

emerging markets’ access to, 352, 358t., 360t., 362t.

equity markets, 268t., 272–273

International Finance Statistics (IFS), 17, 30, 266

International integration. See Globalization/integration

International Monetary Fund (IMF), 17, 35–38, 266


Investor protection, 6–7, 12, 83, 138nn.9,11,12, 279, 280t., 280–282. See also Shareholders

Iran

banking sector, 86t., 107t., 108t.

financial structure, 121t., 200–201t., 229t., 234t. 118t.

foreign bank assets, 87t.

GDP and financial system efficiency, 96t., 97t., 113t.

nonbank financial intermediaries, 86t., 107t., 110t.

trade indicators, 87t., 113t.

Ireland, 40, 55

banking sector, 86t., 87t., 107t., 246t.

financial structure, 118t., 121t., 200–201t., 226t., 234t., 248t.

foreign bank assets, 87t.

GDP and financial system efficiency, 6t., 96t., 97t., 103t., 110t.

market capitalization, 87t., 118t.

nonbank financial intermediaries, 86t., 107t., 110t.

trade indicators, 87t., 113t., 115t., 118t.

Israel, 55

banking sector, 86t., 87t., 107t.

credit index, 203

financial structure, 118t., 121t., 200–201t., 226t., 234t.

foreign bank assets, 87t.

GDP and financial system efficiency, 86t., 96t., 97t., 103t., 105t., 114t.

market capitalization, 87t., 118t.

nonbank financial intermediaries, 86t., 107t., 110t.

trade indicators, 87t., 114t., 116t., 118t.

Italy

as a bank-based system, 120, 248t

banking sector, 86t., 87t., 107t., 108t., 246t.

data sources, 41

financial structure, 118t., 121t., 200–201t., 226t., 235t., 248t.

foreign bank assets, 87t.

GDP and financial system efficiency, 86t., 96t., 97t., 103t., 105t., 113t.

market capitalization, 87t., 118t.

nonbank financial intermediaries, 86t., 108t., 110t.

trade indicators, 87t., 113t., 115t., 118t.

Jakarta Stock Exchange, 382

Jamaica, 56, 101

banking sector, 86t., 87t., 107t.

financial structure, 118t., 119t., 121t., 200–201t., 226t., 235t., 236t.

foreign bank assets, 87t.
Jamaica (cont.)
GDP and financial system efficiency, 86t., 96t., 97t., 103t., 105t., 113t.
market capitalization, 87t., 119t.
et interest margin, 116t.
nonbank financial intermediaries, 86t., 107t., 110t.
trade indicators, 87t., 113t., 116t., 119t.
Japan, 40, 41, 143, 173, 177–179, 248t
as a bank-based system, 120, 173, 177–179, 248t
bank financing compared to U.S., 173, 177–179
banking sector, 86t., 87t., 107t., 246t., 248t., 249
economic performance and financial structure, 143–144
external finance/foreign bank assets, 87t., 276t.
financial structure, 118t., 121t., 200–201t., 226t., 235t., 248t.
GDP and financial system efficiency, 86t., 96t., 97t., 103t., 105t., 113t.
market capitalization, 87t., 118t., 275t.
nonbank financial intermediaries, 86t., 107t., 110t.
trade indicators, 87t., 113t., 115t., 118t.

Jordan
banking sector, 88t., 89t., 107t., 246t.
central bank assets, 88t., 248t., 249
financial structure, 118t., 121t., 200–201t., 226t., 235t., 248t.
foreign bank assets, 89t.
GDP and financial system efficiency, 88t., 96t., 97t., 105t., 113t.
market capitalization, 89t., 118t., 275t.
nonbank financial intermediaries, 88t., 107t., 110t.
trade indicators, 89t., 113t., 115t., 118t.

Kaminski, G., and S. Schmuckler, 351–352, 353
Kang, J.-K., 172
Kang, J.-K., and A. Shivdasani, 178
Kang, J.-K., and R. M. Stultz, 172
Kaplan, S. N., 179–180
Kaplan, S. N., and B. A. Minton, 178
Keiretsu. See Corporate groups system
Kenya, 58–59
as a bank-based system, 120, 248t
banking sector, 88t., 89t., 107t., 108t., 137n.5, 246t.

K i n g , R . G . , a n d R . L e v i n e , 2 1 , 8 4 , 1 7 6
Korea, 59, 92, 100
banking sector, 88t., 89t., 107t., 246t.
corporate financing decisions, 349
country effects, 359t., 363t.
external finance/foreign bank assets, 89t., 276t., 277
financial structure, 119t., 121t., 200–201t., 226t., 235t., 248t.
GDP and financial system efficiency, 88t., 96t., 97t., 103t., 105t., 114t.
as a market-based system, 120, 248t., 356
market capitalization, 89t., 119t., 275t.
nonbank financial intermediaries, 88t., 107t., 110t.
trade indicators, 89t., 111, 114t., 116t., 1199t.

La Porta, L. et al., 122, 123, 126, 128, 147, 159, 175, 191, 205, 215, 259
Law and finance view, 190, 191, 210–212, 233. See also Legal environment
and external finance, 215
firm growth and, 229, 231t., 232
full conditioning information set, 207, 211t., 238n.6
industry growth and, 219, 220–221t., 221, 222–223t.
new firm creation and, 219, 220–221t., 221, 222–223t.
policy conditioning information set, 207, 211t.
Legal environment. See also Contract enforcement; Creditor protection;
Institutional framework; Investor protection
cross-country comparisons, 4
and economic growth, 211t.
and external finance, 176–177
Market-based systems (cont.)
merits of (see Market-based view)
shareholder rights and, 126
shortcomings of (view), 190–191
trade indicators levels, 111
Market-based systems (countries), 248–
249t.
Brazil, 248t., 356
Chile, 120, 248t., 249, 318–320, 319f.,
320f.
Korea, 120, 248t., 356
Malaysia, 120, 248t., 249, 356
Mexico, 120, 248t., 249, 356
Singapore, 120, 248t.
Switzerland, 120, 197, 249t.
Taiwan, 197
Thailand, 249t., 356
United Kingdom, 120, 197, 243, 248t.
United States, 100, 120, 197, 243, 248t.
Market-based view, 8, 190
and external finance, 214
growth of firms and, 227
Market capitalization, 118t. See also Bond
markets; Capital markets; Equity
markets/equities; Primary capital
markets
banking vs., 100, 102–103t., 103–104,
105–106t., 131
emerging markets, 289
data sources, 75
defined, 20t., 195–196
and economic growth, 6, 207, 264
as a share of GDP, 87t., 89t., 91f., 92,
93f., 134, 135f., 136f.
Market imperfections, 148–151
Market orientation and Common Law
tradition, 123, 126
Maturity structure of debt, 352, 357
Mauritius
banking sector, 88t., 89t., 107t., 108t.,
137n.5
external finance/foreign bank assets,
89t., 276t.
financial structure, 118t., 121t., 200–
201t., 226t., 235t.
GDP and financial system efficiency,
88t., 96t., 97t., 103t., 105t., 113t.
market capitalization, 89t., 118t., 275t.
nonbank financial intermediaries, 88t.,
107t., 110t.
trade indicators, 89t., 113t., 115t., 118t.
Mean financial ratios
financial structure and, 275t., 276t., 277,
278t., 280t., 284t., 285, 286t., 286–291,
288t.
inflation and, 284t., 284–285
privatization and, 291t.
Mean financial ratios (tables by title)
mean financial ratios by countries by
years (percent), 278t.
mean financial ratios by country, 275t.
mean financial ratios conditional on
financial structure variables (percent),
288t.
mean financial ratios conditional on
GDP growth rate and inflation
(percent), 284t.
mean financial ratios conditional on
privatization (percent), 291t.
mean financial ratios conditional on
size of the economic system (percent),
286t.
mean total external financial ratios by
country, 276t.
Median countries, 289
Merton, R., 146
Methodology. See Data and
methodology of analyses
Meulbroek, 167
Mexican crisis (1995), 348, 358t., 360t.,
362t., 364, 367t., 371–372
Mexico
banking sector, 88t., 89t., 107t., 108,
246t.
corporate financing decisions, 349
country effects, 359t., 363t.
credit index, 203
data sources, 41, 61–62
external finance/foreign bank assets,
89t., 276t., 277
financial structure, 119t., 121t., 200–
201t., 226t., 235t., 248t.
GDP and financial system efficiency,
88t., 96t., 97t., 103t., 105t., 114t.
as a market-based system, 120, 248t.,
249, 356
market capitalization, 89t., 119t., 275t.
nonbank financial intermediaries, 88t.,
107t., 110t.
trade indicators, 89t., 116t.
trading vs. overhead costs, 113t., 114t.,
119t.
Modigliani, F., and E. Perotti, 175
Morck, R., and M. Nakamura, 166, 178, 191
Morck, R., A. Shleifer, and R. Vishny, 166
Morley, S., R. Machado, and S. Pettinato, 307
Morocco, 62
Mortgage banks, 28
Mutual funds, 136, 137f., 395

National policy. See Governing policy
Neoclassical economics, 144, 377
Nepal
as a bank-based system, 120, 248t.
banking sector, 88t., 107t., 108t., 137n.6, 246t.
bank net interest margin, 89t.
financial structure, 116, 118t., 121t., 200–201t., 226t., 235t., 248t.
foreign bank assets, 89t.
GDP and financial system efficiency, 88t., 96t., 97t., 103t., 105t., 113t.
market capitalization, 89t., 119t.
nonbank financial intermediaries, 88t., 107t., 110t.
trade indicators, 89t., 113t., 114t., 115t., 118t.
Net fixed assets over total assets (firm-level), 353, 358t., 360t., 362t.
Netherlands, 92, 100
banking sector, 88t., 107t., 246t.
bank net interest margin, 89t.
data sources, 41, 62–63
financial structure, 116t., 121t., 200–201t., 226t., 235t., 248t.
foreign bank assets, 89t.
GDP and financial system efficiency, 88t., 96t., 97t., 103t., 105t., 113t.
market capitalization, 89t., 119t.
nonbank financial intermediaries, 88t., 107t., 110t.
trade indicators, 89t., 113t., 114t., 115t., 118t.
Net fixed assets over total assets (firm-level), 353, 358t., 360t., 362t.
New Zealand
banking sector, 88t., 89t., 107t., 246t.
data sources, 41, 63
domestic bond markets in, 274, 276
external finance/foreign bank assets, 89t., 225, 276t.
financial structure, 118t., 121t., 200–201t., 226t., 235t., 248t.
GDP and financial system efficiency, 88t., 96t., 97t., 103t., 105t., 113t.
market capitalization, 89t., 118t., 275t.
nonbank financial intermediaries, 88t., 107t., 110t.
rule of law in, 203
trade indicators, 89t., 113t., 115t., 118t.
Nigeria, 63
banking sector, 88t., 89t., 107t.
central bank assets, 88t., 248t., 249
financial structure, 118t., 121t., 200–201t., 226t., 235t., 248t.
foreign bank assets, 89t.
GDP and financial system efficiency, 113t.
nonbank financial intermediaries, 88t., 107t., 110t.
trade indicators, 89t.
Nonbank financial intermediaries, 86t., 92–94, 94f., 20, 107t., 110t., 136, 137f.
See also Insurance sector; Mutual funds; Pension funds assets of, 24f.
assets/total financial assets ratio, 25f.
banklike institutions, 28–29, 94f.A,B
credit issued by vs. trading, 106t., 109, 110–111t.
company of, 28–30, 31ff.
nonbank financial institutions versus trading, 110–111t.
new bank financial intermediary development over the 1990s, 94f.
nonbank financial intermediary development over time, 137f.3A.5
Nonbank financial intermediaries, claims on private sector, 845, 90f., 91t., 133f.
Nonemerging markets, 279, 281. See also Developed vs. developing countries
Non-interest-earning assets/total assets ratio, 246–247t., 253t., 256t., 258
Norway
banking sector, 88t., 107t., 246t.
central bank assets, 88t.
data sources, 41, 63–64
Norway (cont.)
financial structure, 118t., 121t., 200–201t., 226t., 235t., 248t.
foreign bank assets, 89t.
GDP and financial system efficiency, 88t., 96t., 97t., 103t., 105t., 113t.
market capitalization, 89t., 118t.
net interest margin, 89t., 115t.
nonbank financial intermediaries, 88t., 107t., 110t.
rule of law in, 203
trade indicators, 89t., 113t., 115t., 118t.

OECD countries, 267, 268t., 275t.
Open economies, 166
Optimal debt ratio, 171
Overhead costs, 85, 86t., 88t., 89t., 90f., 28f., 91t., 95, 111
Overhead/total assets ratio, 245, 246–247t., 252, 253t., 256t., 258
Ownership. See Corporate ownership; Entrepreneurs; Shareholders

PACAP dataset, 380
Pakistan
as a bank-based system, 100, 120, 248t.
banking sector, 88t., 107t.
bank net interest margin, 89t.
credit index, 203
data sources, 41, 64
external finance/foreign bank assets, 89t., 276t.
financial structure, 118t., 121t., 200–201t., 226t., 235t.
GDP and financial system efficiency, 88t., 96t., 97t., 103t., 105t., 113t.
market capitalization, 89t., 118t., 275t.
nonbank financial intermediaries, 88t., 107t., 110t.
rule of law in, 204
trade indicators, 89t., 113t., 115t., 118t.
Panama
as a bank-based system, 101, 103, 197, 248t.
banking sector, 88t., 89t., 107t., 108t., 137n.5, 246t.
central bank assets, 88t., 248t., 249
financial structure, 118t., 121t., 200–201t., 226t., 235t., 248t.
foreign bank assets, 89t.
GDP and financial system efficiency, 88t., 98t., 103t., 105t., 113t.
market capitalization, 89t., 118t.
nonbank financial intermediaries, 88t., 108t., 110t.
trade indicators, 89t., 113t., 115t., 118t.
Paraguay
banking sector, 246t.
data sources, 65
financial structure, 248t.
Pension funds, 29, 136, 137t.
Perfect markets benchmark, 148–151, 181n.2
Perry, D., and G. Leipziger, 299
Peru, 65
banking sector, 88t., 107t., 246t.
credit index, 203
external finance/foreign bank assets, 89t., 276t.
financial structure, 119t., 121t., 200–201t., 226t., 235t., 248t.
GDP and financial system efficiency, 98t., 105t., 113t.
inflation in, 265
internal vs. external finance in, 226t., 276t., 277
as a market-based system, 100, 248t.
market capitalization, 89t., 119t., 275t.
nonbank financial intermediaries, 88t., 108t., 110t.
rule of law in, 204
trade indicators, 89t., 113t., 115t., 118t.
Philippines, 101
banking sector, 88t., 107t., 246t.
data sources, 41, 65
external finance/foreign bank assets, 89t., 276t., 277
financial structure, 119t., 121t., 200–201t., 226t., 235t., 248t.
GDP and financial system efficiency, 88t., 98t., 103t., 105t., 114t.
as a market-based system, 100, 120, 248t.
market capitalization, 89t., 119t., 275t.
nonbank financial intermediaries, 88t., 107t., 110t.
rule of law in, 204
size of financial system, 98t.
trade indicators, 89t., 114t., 116t., 119t.
Policy conditioning information set, 207, 211t. See also Governing policy
Pooled investment schemes, 29
Portugal
as a bank-based system, 101, 103, 120
banking sector, 88t., 89t., 107t., 108t.
data sources, 41, 65–66
external finance/foreign bank assets, 89t., 276t.
financial structure, 118t., 121t., 200–201t., 226t., 235t.
GDP and financial system efficiency, 88t., 98t., 105t., 113t.
market capitalization, 89t., 118t., 275t.
nonbank financial intermediaries, 88t., 108t., 110t.
trade indicators, 89t., 113t., 115t., 118t.
Post–World War II studies, 175
Primary capital markets, 263, 264, 267, 292–293
data sources, 76–78
summary statistics, 268–269t.
Private bond markets, 20t.
Private credit, 24f.
by life insurance companies, 31f.2.6, 94f.C
by other financial intermediaries, 30, 31f., 112, 137–138n.6
of deposit money banks, 19t., 112, 137–138n.6
Private equity financing, 158, 174
Private pension funds, 94f.A and B
Privatization of state enterprises, 264, 291t., 291–292
in Chile, 306
in Indonesia, 378
mean financial ratios and, 291t.
Profitability. See Corporate profitability
Profit/total assets ratio, 245, 246–247t., 252, 258
Property rights, 158
Provident funds, 29. See also Pension funds
PT Bursa Efek Surabaya/Jakarta, 382
Public bank share of high-income and low-income countries, 87t., 89t., 90f., 91t., 91
Public equity markets. See Equity markets/equities
Public offerings, initial. See Primary capital markets
Public policy. See Governing policy
Public share in total assets, 87t.
Pyramids, 163
R&D investments, 8, 156, 167
Rajan, R. G., 191
Regulatory environment. See Accounting standards
Regulatory environment, 82, 120, 122, 128–130, 131–132. See also Banking regulations; Governing policy; Legal environment
Relative size of bank, stock markets, and other financial institutions, 101f.
Religion (dominant national) and institutional development, 215
Rents extracted by financial intermediaries, 144, 155, 157–158, 191, 258
pyramids and, 163
Research and development (R&D) investments, 8, 156, 167
Resource allocation, 190
Restrictions, financial, 149–150, 153
RESTRICT index, 124t., 129–130
Retained earnings ratios to total debt of emerging markets, 352, 358t., 360t., 362t.
to total liabilities, 348, 373n.6
Risk-avoidance, 156
Risk-sharing, 146
Roll, R., 378
Roman law, 204. See also French civil law system
Rule of law index, 198–199t., 203, 211, 212, 222–223t., 227
Rwanda, 66
Saudi Arabia, 66
Savings, 143
Savings banks, 28
Scandinavian civil law, 123, 204
Schmukler, S., and E. Vesperoni, 10–11, 347
Secondary markets, 33, 294n.1
Securities. See Capital markets
Shareholders entrepreneurial or staff, 164–166
family or block, 164–165
governance role of, 169–170
having differential voting rights, 163, 164
large shareholders stake, 161–162, 163, 164, 165, 174
Shareholders (cont.)
protecting rights of minority, 83, 145, 152, 161, 173, 174, 203, 259
pyramids and costs to, 163–164
shareholder wealth, 160
SRIGHTS (shareholder rights) measure, 83, 124t., 132, 138n.8
Shleifer, A., and R. Vishny, 162
Shleifer, A., and D. Wolfenson, 182n.9
Short-term finance, 173, 190, 232, 311
emerging markets and, 352, 356f., 358t., 360t., 362t., 364
GDP and financial system efficiency, 88t., 98t., 103t., 106t., 113t.
market capitalization, 89t., 119t.
nonbank financial intermediaries, 88t., 107t., 110t.
rule of law in, 204
trade indicators, 89t., 114t., 116t., 119t.
SRIGHTS index, 83, 124t., 132, 138n.8. See also Shareholders
Sri Lanka
banking sector, 88t., 89t., 107t., 108t., 247t.
data sources, 41, 68
external finance/foreign bank assets, 89t., 276t.
financial structure, 118t., 121t., 200–201t., 226t., 235t., 248t.
market capitalization, 89t., 108, 275t.
nonbank financial intermediaries, 88t., 108t., 110t.
rule of law in, 204
trade indicators, 89t., 113t., 115t., 118t.
Stability, macroeconomic, 9, 131, 158, 159, 180, 212
Staged financing, 151–154, 158, 349–350, 357
STCOUNT, 225, 226t., 227, 228t., 230t., 231t.
Stein, J. C., 167
Stockholders. See Shareholders
Stock markets. See also Equity markets/equities; Market capitalization;
Primary capital markets development, 33, 34ff., 287
liquidity of, 9, 17, 22, 162–163, 207–208, 349, 397–399, 398t.
size of, 17, 72, 92
Stocks
issued by newly listed companies, 263, 264, 267, 268–269t., 286t., 292–293
undervaluation of, 165
Structure-activity measure, 197, 198–199t., 202, 208t., 209t., 217t., 218t., 219, 220–221t., 222–223t., 228t.
Structure-aggregate measure, 197, 198–199t., 208t., 209t., 219, 228t.
Structure-efficiency measure, 197, 198–199t., 202, 208t., 209t., 217t., 218t., 220–221t., 222–223t., 228t.
Structure index, 114–120, 117f., 118–119t., 121t., 123, 125t., 131–132, 248–249t., 250–255, 253t., 256t., 288t.
Structure-size measure, 197, 198–199t., 202, 208t., 209t., 217t., 218t., 219, 220–221t., 222–223t., 228t.
Stulz, René M., 7, 143, 189, 350, 357
Suboptimal continuation decisions, 156–157
Subrahmanyam, A., and S. Titman, 182n.17
Suharto, President, 386
Swaziland
banking sector, 247t.
financial structure, 249t.
Sweden, 92
banking sector, 88t., 89t., 107t., 247t., 249t.
banks vs. capitalization, 108
data sources, 42, 68–69
financial structure, 119t., 121t., 200–201t., 226t., 235t., 249t.
foreign bank assets, 89t.
GDP and financial system efficiency, 88t., 98t., 102t., 105t., 114t.
market capitalization, 89t., 119t.
et interest margin, 116t.
nonbank financial intermediaries, 88t., 107t., 110t.
rule of law in, 203
trade indicators, 89t., 111, 114t., 116t., 119t.
Swiss Re, 30
Switzerland, 92, 100
bank credit, 248t., 249
banking sector, 88t., 89t., 107t., 247t.
data sources, 42, 69
finance-activity in, 196
financial structure, 119t., 121t., 200–201t., 226t., 235t., 249t.
foreign bank assets, 89t.
GDP and financial system efficiency, 88t., 98t., 102t., 105t., 114t.
as a market-based system, 120, 197, 249t.
market capitalization, 89t., 119t.
nonbank financial intermediaries, 88t., 107t., 110t.
rule of law in, 204
trade indicators, 89t., 111, 114t., 116t., 119t.
Tables by title:
Argentina (see under Argentina (tables by title))
bank characteristics, 246–247t.
bank credit vs. trading, 107–108t.
bank interest margins and financial structure, 256t.
bank performance and financial structure, 251t.
bank profitability and financial structure, 253t.
banks vs. capitalization, 102–103t.
banks vs. other financial institutions, 105–106t.
bank-based vs. market-based systems (OLS), 358–359t.
bank-based vs. market-based systems (instrumental variables), 362–363t.
bank-based vs. market-based systems (within), 360t.
Chile (see under Chile)
correlations of financial intermediary and equity market development with GDP per capita, 91t.
correlations of overall size of the financial sector with GDP per capita, 99t.
country classification of financial structure, 121–122t.
coverage of the variables, 19–20t.
descriptive statistics and correlation, 198–199t.
determinants of financial structure (correlations), 125t.
determinants of financial structure (means tests), 124t.
external dependence across industries, 237t.5A.2
financial development and economic growth, 210t.
financial development and economic growth: The legal-based view, 211t.
financial development and firm growth, 230t.
financial development, financial structure and growth in the number of firms, 220t.
financial development, financial structure and industry growth, 218t.
financial intermediary and equity market development across countries, 86–89t.
Chile (cont.)
financial structure across countries, 118–119t.
financial structure across countries, 200–201t.
financial structure and economic growth (sensitivity analysis), 209t.
financial structure and firm growth, 228t.
financial structure and industry growth, 217t.
financial structure, financial development and economic growth (OLS regressions), 208t.
financial structure, the legal environment and industry growth, 222t.
firm growth across countries, 226t.
firm growth and the legal-based view, 231t.
indicators of financial development, Financial structure and the legal system across countries, 234–226.5A.1 Indonesia (see under Indonesia)
mean financial ratios by countries by years (percent), 278t.
mean financial ratios by country, 275t.
mean financial ratios conditional on financial structure variables (percent), 288t.
mean financial ratios conditional on GDP growth rate and inflation (percent), 284t.
mean financial ratios conditional on privatization (percent), 291t.
mean financial ratios conditional on size of the economic system (percent), 286t.
mean total external financial ratios by country, 276t.
other financial institutions vs. trading, 110–111t.
overall size and efficiency of the financial sector across countries, 96–98t.
summary statistics, 268–269t.
trading vs. interest margin, 115–116t.
trading vs. overhead costs, 113–114t.
Taiwan
data sources, 69–70
external finance ratios, 276t.
as a market-based system, 197
market capitalization, 275t.
Takeovers. See Corporate takeovers
Tax laws, 82, 120, 122, 130
Tax rate measure(s), 83, 124t., 130–131, 227, 252, 253t., 254, 256t.
Thailand, 70, 92, 100, 395
banking sector, 88t., 89t., 107t., 247t.
corporate financing decisions, 349
data sources, 42
finance-activity measure (low value), 208
financial structure, 119t., 121t., 200–201t., 226t., 235t., 249t.
foreign bank assets, 89t.
GDP and financial system efficiency, 88t., 98t., 102t., 105t., 114t.
as a market-based system, 249t., 356
market capitalization, 89t., 119t.
nonbank financial intermediaries, 88t., 107t., 110t.
size of financial system, 98t.
trade indicators, 89t., 111, 114t., 116t., 119t.
Thurow, L., 143–144
Tobago. See Trinidad and Tobago
Tonga, 70
Total financial assets, 20–21
Total value traded (Tvt)/GDP ratio, 248–249t., 249, 250
Trade indicators, 89t., 92, 93f., 11, 95, 100, 109, 119, 134, 135f., 136f., 287, 288t.
trading versus interest margin, 111–112, 115–116t.
trading versus overhead costs, 111–112, 113–114t., 114, 118–119t.
tradable producers, 358t., 360t., 362t., 364
value traded measure, 197, 198–199t., 212, 238n.4
Transaction costs, corporate financing decisions and, 7, 143
Trinidad and Tobago, 71
banking sector, 88t., 107t., 108t., 137n.5
banks vs. capitalization, 103t., 105t.
financial structure, 118t., 121t., 200–201t., 226t., 235t.
foreign bank assets, 89t.
GDP and financial system efficiency, 98t., 113t.
market capitalization, 118t.
onbank financial intermediaries, 88t., 108t., 110t., 111t.
trade indicators, 89t., 113t., 115t., 118t.
Tunisia
as a bank-based system, 103
banking sector, 88t., 89t., 107t., 108t., 137n.5
data sources, 42, 71
financial structure, 118t., 121t., 200–201t., 226t., 235t.
foreign bank assets, 89t.
GDP and financial system efficiency, 88t., 98t., 103t., 105t., 113t.
market capitalization, 89t., 118t.
nonbank financial intermediaries, 88t., 108t., 110t.
trade indicators, 89t., 113t., 115t., 118t.
Turkey
banking sector, 88t., 89t., 107t., 108t.
data sources, 42, 71
domestic bond markets, 274
external finance/foreign bank assets, 89t., 276t.
financial structure, 116, 119t., 121t., 200–201t., 226t., 235t.
GDP and financial system efficiency, 88t., 98t., 102t., 106t., 114t.
as a market-based system, 120, 248t.
market capitalization, 89t., 119t., 275t.
nonbank financial intermediaries, 88t., 107t., 110t.
trade indicators, 89t., 116t., 114t., 116, 119t.
Turnover ratio, 87t., 89t., 91f., 93f., 95, 109, 134, 135f., 136f.
as measure of overall efficiency, 95
Underdeveloped financial systems, 121t.
See also Emerging markets; High-income and low-income countries compared
banking sector predominant in, 117, 119–120, 137n.5
bank performance in, 248–249t., 250, 251t., 258
determinants of financial structure, 83, 100, 103–104, 116, 119, 124–125t., 132 inflation and, 83
legal system and, 122–123, 126–127
market-based (atypical), 117, 120
United Kingdom, 4, 92, 100
banking sector, 86t., 87t., 107t., 248t., 249
credit index, 203
data sources, 42, 72
external finance/foreign bank assets, 87t., 276t., 277
financial structure, 119t., 121t., 200–201t., 234t., 249t.
GDP and financial system efficiency, 86t., 96t., 97t., 103t., 105t., 114t.
as a market-based system, 120, 197, 243, 249t.
market capitalization, 87t., 119t., 275t.
nonbank financial intermediaries, 86t., 107t., 110t.
trade indicators, 87t., 111, 114t., 116t., 119t.
United States, 92
bank financing compared to Japanese, 173
banking sector, 88t., 89t., 107t., 247t.
bank net interest margin, 89t.
data sources, 42, 72–73
economic performance and financial structure, 143–144, 167–168
external finance/foreign bank assets, 89t., 276t.
financial structure, 119t., 121t., 200–201t., 226t., 235t., 249t.
GDP and financial system efficiency, 88t., 98t., 102t., 105t., 114t.
history of shareholder status in, 175–176, 182n.11
as a market-based system, 100, 120, 197, 243, 249t.
market capitalization, 89t., 119t., 275t.
nonbank financial intermediaries, 88t., 107t., 110t.
rule of law/legal enforcement in, 152–153, 204
trade indicators, 116t.; 89t., 111, 114t., 119t.
Uruguay
banking sector, 88t., 89t., 107t.
data sources, 42, 73–74
financial structure, 118t., 121t., 200–201t., 226t., 235t.
foreign bank assets, 89t.
GDP and financial system efficiency, 88t., 98t., 102t., 105t., 113t.
Uruguay (cont.)
market capitalization, 89t.
nonbank financial intermediaries, 88t., 107t., 110t.
trade indicators, 89t., 113t.

Value claims on money deposit banks to the private sector, 289
Value Traded measure, 197, 198–199t., 212, 238n.4

Venezuela, 74
banking sector, 88t., 89t., 107t.
external finance/foreign bank assets, 89t., 276t.
financial structure, 118t., 121t., 200–201t., 226t., 235t.
GDP and financial system efficiency, 88t., 98t., 102t., 105t., 113t.
market capitalization, 89t., 118t., 275t.
nonbank financial intermediaries, 88t., 107t., 110t.
trade indicators, 89t., 113t., 115t., 118t.
Venture capital, 182n.16

Weinstein, D. E., and Y. Yafeh, 191
World Bank, classification of countries, 78nn.7,9
World Development Indicators, 75, 85
Worldscope database, 224
World War II (post–), 175

Zambia
banking sector, 247t.
data sources, 42
financial structure, 249t.
Zero coupon debt, 171

Zimbabwe, 74–75
banking sector, 88t., 89t., 107t., 108t.
credit index, 203
financial structure, 118t., 121t., 200–201t., 226t., 235t.
foreign bank assets, 89t.
GDP and financial system efficiency, 88t., 98t., 102t., 105t., 113t.
market capitalization, 89t., 118t.
nonbank financial intermediaries, 88t., 107t., 110t.
trade indicators, 113t., 89t., 115t., 118t.
Zingales, L., 161