

Index

- Accounting consistency, in model, 4
- Agricultural productivity: increase in, and worsening of rural income distribution, 84–89 *passim*, 134–35, 145f; in policy experiments, 131, 133, 142–43, 145, 168, 170; and rural-urban migration, 129, 131; and agricultural terms of trade, 134
- Agricultural sector: in model, 30, 35, 129–30; in Korean economy, 38–39, 45, 47, 84–85, 129, 182–83; in policy experiments, 84–89; effect of various economic growth rates on, 116f, 119
- Agricultural terms of trade, 6; as the key mechanism for income redistribution, 18, 89, 109–21 *passim*, 143, 145, 185, 189, 191–92, 197–200 *passim*; in basic dynamic run, 113, 129; and slow growth rate, 117, 119; in policy experiments, 131, 133–34, 162; and trade policy, 192–93; and population reduction, 193
- Australia, 189
- Authoritarian governments, 201f
- BACHUE model, 183f
- Balance of payments, 6
- Banking market, in model, 33
- Behavioral specifications, in model, 188–89
- Birth control, *see* Population reduction
- Capital, in model, 3, 32–33
- Closure, degree of, in model, 10, 188
- Computer time and cost, 128n, 187–88
- Confucianism, 38
- Consuming sector in model, 22–24, 60–62
- Consumption subsidy in policy experiments, 138–39, 141–45 *passim*, 148–49, 150–51, 161–63, 166–67, 170–79 *passim*
- Cooperatives, rural, in policy experiments, 132–34, 135–36, 142–43, 145, 170–79 *passim*
- Credit, in model, 32–33
- Curb market, 33
- Data for model, 48–49, 50–53 (tables), 54, 259–68 (Appendix D, tables)
- Demographic change in policy experiments, 139–43 *passim*, 145, 149–51, 161–63, 167–69, 170–79 *passim*
- Devaluation of currency, 44
- Development strategy, 17f, 189–202
- Domestic market, in model, 29
- Economic growth: and export-oriented strategy, 2, 11, 17, 43, 91, 116, 127, 189, 199; effect on income distribution, 2, 17, 47, 111–13, 116–17, 119, 189; and import-substitution strategy, 11, 120, 126–27; and worsening agricultural terms of trade, 129; and planning models for, 187. *See also* U hypothesis
- Economic Planning Board, 43
- Education: and income distribution, 7–8; high levels of, as precondition for successful export-led growth strategy, 17, 199–200; in model, 32; in Korea, 37–42 *passim*, 182–83; in policy experiments, 139–43, 145, 149–51, 161–63, 167–69, 170–79 *passim*
- Employment: in model, 4; and Korean higher education, 41–42; increases in post-1964 Korea, 44–45; data for, 49, 54; and capital-intensive technology, 97–98; increase in, as tool of income redistribution, 98; in policy experiments, 136–38, 142–43, 145, 153–55, 158–59, 161–63, 169–79 *passim*
- Equilibrium models, 36

- Equity, distributional, 17–18. *See also*
Income distribution
- Exchange rate, in model, 29, 34
- Expenditure decisions, in model, 4
- Expenditure elasticities, 60–62
- Experts, role in Korean economic planning, 43
- Export-oriented strategy: in Korea, 28, 42–43, 44–45, 90–91, 98, 108, 183; in policy experiments, 89–97, 152–53, 158–59, 161–63; impact on income distribution by group, 97; and economic growth with distributional equity, 116, 127, 189, 199; in “reform capitalism” policy experiment, 171, 179; effect on agricultural terms of trade, 192–93
- Exports, in model, 12, 28, 34, 49, 54
- Extended family, 7
- Factor shares, instability of, and stability of size income distribution, 17–18
- Finance minister programs, in model, 12, 33, 252
- Firms: size of, as determinant of wages for same-skill categories, 9, 29; in model, 20–22, 29–30, 32–34
- Forecasting, use of models in economic, 6
- Foreign trade, in model, 28–29. *See also*
Exports, in model; Export-oriented strategy; Imports, in model; Import-substitution strategy
- Government, in model, 3f, 29, 34
- Higher education in Korea, 41–42
- Households, in model, 4, 27–28, 34, 49, 54
- Human capital, 5, 9–10, 17, 41, 199–200
- Imports, in model, 12, 28–29, 34
- Import-substitution strategy: and economic growth, 11, 120; in Korea, 39, 42–43, 44, 108; effect on income distribution, 97, 121, 126–27, 192–93; in “reform socialism” policy experiment, 171f, 179; effect on agricultural terms of trade, 192
- Income distribution: and economic growth, 1f, 47, 117, 119, 189; strategies to change, 2, 6–8, 17, 190, 200f; and trade policies, 2, 121, 126–27, 192–93; political problems in changing, 2, 191, 200–202; models to study, 2–3, 48, 103, 184, 187; in model, 4–6, 16, 22, 26–28, 59–60, 71, 111–13, 116, 182–83; economic factors affecting, 6–8; and political power, 7; in economic theory, 8–11; functional and household, 9–10, 17–18; and institutional arrangements, 11; limited effects of policy interventions, 17–18, 85–86, 95, 103; 111–13, 183–84, 187, 190–91; and population reduction, 18, 141, 168–69, 193; in Korea, 39, 45–47, 91, 192–93; in agricultural sector, and increased agricultural output, 84–89 *passim*, 135; and agricultural terms of trade, 116f, 163, 185–92 *passim*; and land reform, 131; and investment, 186–87; and migration, 192
- Industry: development of, 2, 18; income in, 45, 47; promotion of, in policy experiments, 151–53, 158–59, 161–63
- Inflation, 6ff; in model, 12, 24–26, 34, 185–86; in Korea, 39, 42, 44; and planning models, 185–86
- Institutional arrangements, effect of on income distribution, 11
- Interest rates, Korean reform of, 43f
- Intergenerational transfers, and income distribution 7–8
- Intertemporal equilibrium, 35–36
- Investment, 32–34, 186–87
- Iteration of prices, and solving model, 24
- Japan, 37, 39, 41, 129
- Jobs, access to, and income distribution, 7–8
- Johansen, L., 3
- Korea: as test case for study of income distribution, 11; trade policy of, 28, 42–43, 44–45, 90–91, 98, 108, 183; and Japanese colonial rule, 37, 39, 41; education in, 37, 39, 41–42, 182–83; United States policy toward, 38, 42; agriculture in, 38, 45, 47, 84–85, 129, 182–83; land reform in, 38–39; inflation in, 39, 42, 44; government in, 41, 43; economy of, 42–47, 128, 182–83; tax system in, 79–80; poor groups in, 189–90
- Korean War, 39
- Kuznets U hypothesis, 1, 47, 189n
- Labor force, 4, 44f
- Labor unions, 47
- Land reform: in Korea, 38–39; in policy experiments, 130–32, 142–43, 170–79 *passim*
- Landlords in Korea, 38–39

- Landownership, egalitarian, as
precondition for equitable growth, 17,
129, 199–200
- Leontieff, Wassily, 19
- Literacy in Korea, 37, 41
- “Lurching equilibrium” of model, 9, 35f
- Lysy, F. J., 62
- Malnutrition in developing countries, 201
- Manufacturing sector, in model, 30
- Market behavior, in model, 10
- Marketing board in policy experiments,
134–36, 142–43, 145, 170–79 *passim*
- Migration, rural-urban, 18, 35, 129, 131,
154–55; in model, 3, 16, 32, 35
- Model, computable general-equilibrium
(CGE): described, 3–17, 19–36, 184–85,
188–89; as laboratory for policy experi-
ments, 5, 62, 64, 76, 183–89; valida-
tion of, 5–6, 62–65, 67–69, 71–74,
76, 181–83; compared with other
models, 9, 19f, 54, 62–68 *passim*,
181–82, 185–86, 187, 188; “lurching
equilibrium” of, 9, 35f; agricultural
sector in, 30, 35, 129–30; data for,
48–49, 54, 65; parameters for, 54,
55–57 tables, 58–63, 182; results
generated by, compared with real-world
economic data, 65–76; computer time
and cost for, 128n, 187–88
- Models, economic, 2–3, 9, 181–82, 187
- Money, modeling of, 24–26, 58–59,
185–86, 187
- Money market, in model, 33
- Monopoly, in model, 30
- Nationalization in policy experiments,
159–61, 163, 170–79 *passim*
- Netherlands, 189
- Oil crisis of 1973, 6, 189n
- Parameters of model, 54, 55–57 tables,
58–63, 182
- Park, Chung Hee, 43
- Planning, use of models in economic, 3,
184, 185–86, 187
- Policy experiments with model, 78–103,
130–45, 148–63, 166–79
- Policy making, 18, 189–201
- Political conflict: and income
redistribution programs, 2, 191, 199,
200–202; and Korean students, 41f
- Political power, 7, 200–202
- Population growth, in model, 3, 5, 16, 32
- Population reduction, as redistributive
tool, 18, 141, 168–69, 193. *See also*
Demographic change
- Poverty: limited effect of policy inter-
ventions on, 18, 190–91; in rural
households, 85, 113, 119; necessity for
massive programs to reduce, 103; and
various rates of economic growth, 112,
117, 119; and trade policies, 121,
126–27, 192–93; political problems in
reducing, 200–202
- experiments that reduced, 191–200;
rural, *A-1*, 130–32, *A-2*, 132–34, *A-4*,
135–36, *A-5*, 136–38, *A-6*, 138–39, *A-8*,
141–42, *A-9*, 142–43, *A-10*, 145; urban,
B-3, 150–51, *B-5*, 152–53, *B-6*, 153–55,
B-9, 158–59, *B-11*, 161–63; combined
urban-rural, *C-1*, 166–67, *C-2*, 167–69,
C-3, 169–70, *C-4*, *C-5*, 170–79
- experiments that failed to reduce: rural,
A-3, 134–35, *A-7*, 139–41; urban, *B-1*,
148–49, *B-2*, 149–50, *B-4*, 151–52, *B-7*,
155–56, *B-10*, 159–61
- experiments that worsened: urban, *B-8*,
156–58
- Prices, modeling of, 20–21, 24, 185, 187,
188
- Price subsidies as anti-poverty tool,
193–94
- Primary education in Korea, 37, 41
- Production: size structure of, in model, 3,
20–22, 58; in policy experiments,
132–36
- Productivity, 58, 109. *See also*
Agricultural productivity
- Professional classes, income increased by
anti-poverty programs, 189, 191
- Public works in policy experiments,
136–38, 142–43, 145, 153–55, 158–59,
161–63, 169–79 *passim*
- “Reform capitalism” policy experiment,
170–80, 197–99
- “Reform socialism” policy experiment,
170–80, 197–99
- Refugees, 39
- Regression analysis, 54, 79
- Revolution, 2, 202
- Rhee, Syngman, 41f
- Rice, 129f
- Rural development, 2, 199–200
- Rural employment, 84
- Rural groups, effect of policy experiments
on income of, 117, 119, 126, 146, 162f,

190. *See also* Poverty, experiments that reduced
- Rural industry in policy experiments, 136–38, 142–43, 145, 170–79 *passim*
- Rural labor, migration of, to urban areas, 35
- Savings, 44; in model, 4, 28, 34
- Secondary education in Korea, 41
- Self-employed, 3, 32, 35; and data problems, 49, 54
- Service sector, in model, 31–32
- Sharecropping in Korea, 85, 129, 183
- Stage I of model, 11–12, 13 (fig.), 16f, 32–34, 35; and impact on income distribution, 186–87; equations, 246–50
- Stage II of model, 12, 14–15 (figs.), 16f, 32, 35; equations, 205–26; solution techniques, 227–43; 228–30, 237 (figs.)
- Stage III of model, 11, 16f, 32, 34–36, 253–57
- Starvation in developing nations, 201
- Stone, Richard, 10
- Students, 41f
- Taiwan, 129
- Tariffs, 12, 29
- Taxes: in model, 27, 191; in policy experiments, 78–84, 133
- Technology, 5, 7, 32; in policy experiments, 97–99, 101–3
- Technology, labor-intensive: and income distribution, 2, 7, 18; in policy experiments, 155–56, 158–59, 161–63
- Tenancy in Korea, 38–39, 84f, 129, 183
- Terms of trade, *see* Agricultural terms of trade
- Time focus, in model, 5, 8
- Trade: in policy experiments, 89–97, 152–53, 158–59, 161–63; in traditional planning models, 187
- Trade policy, 96; Korean, 28, 42–43, 44–45, 90–91, 98, 108, 183; export-oriented, 97, 192–93; import-substitution, 192–93. *See also* Export-oriented strategy; Import-substitution strategy
- Transfers, income, 17, 27; in policy experiments, 78–84; as anti-poverty tool, 193–94
- “Trickle-down” effect, 113, 135, 192–93
- “Trickle-up” effect, 191
- U hypothesis, 1, 47, 189n
- Unemployment, 9, 44–45
- United States policy toward Korea, 38, 42
- Urban groups, 159; poverty among, 113, 163, 189–90; rural development and, 117, 119, 135, 146; trade policy and, 121, 126; and economic growth, 129, 190. *See also* Poverty, experiments that reduced
- Validation of model, 5–6, 62–65, 67–69, 71–74, 76, 181–83
- Wages: in model, 3, 21–22, 26–27, 187f; rural-urban differentials in, and migration, 35; changes over time, 45, 47, 191; in planning models, 185, 187f
- War, Korean, 39
- Wealth, 7–8, 18
- World market, in model, 29