

Index

- Administrative costs, 3, 8, 105, 184
Administrative route to protection, 16, 46
Aggregation bias, 7, 11, 52, 57–58
Agricultural protection programs, 12–13,
24, 53, 55, 57, 60–61, 64, 71, 151–167
budget concerns, 26, 53, 155
Anderson, James E., 52, 58, 59, 62, 68, 73,
74, 76, 77, 80, 113, 120, 130, 133, 201
Anderson, James E., and J. G. Riley, 165,
195
Anderson James E., and Leslie Young, 12,
69, 112, 195, 207, 211, 219. *See also*
Young, Leslie, and James E. Anderson
Anonymity of tariffs, 19
Arbitrage, 6, 8, 9, 14, 15, 53, 77, 84, 111,
117, 134, 141, 143, 145, 152, 159, 179,
180, 190, 195, 209, 213, 216
Arbitrage efficiency, 1, 4, 7, 8, 9, 10, 11, 12,
13, 14, 15, 19, 83, 85, 96, 105, 112,
113, 130, 215
Arrow-Pratt coefficient of relative risk
aversion, 132–133, 182, 184, 187, 195
Assumptions
convex structure, 24, 63, 68, 71–72, 90,
93–94, 98, 100, 116, 147, 155, 211
country, large, 73, 74, 145, 151, 192, 212
country, small, 14, 54, 58, 61, 73, 74, 86,
103, 151, 178, 179
homogeneous product, 2, 154
homotheticity, 62, 83, 85, 92, 101, 102,
103, 105
homotheticity (non), 58, 83, 92
Keynesian labor market, 48, 89, 90, 98,
134
lump-sum redistribution, 22, 50, 54, 102,
106, 169
non-traded goods, 54, 115
rationality, 32, 37, 41, 46, 103, 104, 204,
205, 206, 209, 210, 211, 219
rent capture, domestic, 43, 44, 45, 87, 104,
105
rent capture, foreign, 44, 45, 104, 105
separability, additive, 22, 83
separability (non), 84, 85, 95, 105
separability, weak, 8, 9, 14, 83, 85, 91, 92,
99, 101–102, 103, 104, 105
Asymmetric information, 5, 33, 48
Atkinson, Anthony, and J. E. Stiglitz, 85
Attitudes toward risk
aversion, 12, 23, 24, 89, 106, 132, 162–
163, 166, 177–194
neutrality, 162, 166, 181, 185, 204, 206
Aw, Bee Yan, and Mark Roberts, 84
Baldwin, Robert E., 9, 16, 46, 53, 84
Baumol, William J., 27, 36
Bertrand behavior, 36, 41, 42
Bhagwati, Jagdish, 4, 5, 31
Bhagwati, Jagdish, and T. N. Srinivasan, 18,
52, 111, 150, 195, 202
Black, Fischer, and Myron Scholes, 202
Blume, M. E. *See* Friend, I., and M. E. Blume
Bond, Eric, 107
Bresnahan, T., 37, 38, 40, 44, 47, 50
Buffer policy, 13, 151, 152, 153, 154, 156,
158, 160, 166, 167, 175
Bureaucratic behavior, 17, 18, 19–21, 26,
51–53, 56, 215
Cassing, James H., and Arye L. Hillman, 19
Caves, R. E., and R. W. Jones, 178
Collusion, 32, 33, 34, 36, 37, 39, 44, 47, 48,
49
Complementarity, 95, 96, 101, 106, 160

- Conjectural variations, 26, 31, 32, 33, 34, 36, 37–40, 43, 45, 47, 48
 consistent conjectural variations, 26, 32, 33, 36, 37, 38, 39, 40, 41, 42, 44, 45, 46, 47, 48, 49, 50, 103, 107
- Constraints
 balanced trade, 54, 87, 97, 102
 entry constraint, 7, 20, 36–37, 203
 expected stock-out constraint, 154, 156, 163–164, 166, 169
 expenditure constraint, 24, 26, 53, 62, 155–156, 167, 169, 174
 nonbinding constraint, 10, 125, 132, 201, 204, 206, 207
 “non-economic” constraints, 9, 10, 12, 13, 14, 21, 24, 27, 52, 53, 54, 55, 56, 62, 107, 138, 142, 178, 179, 192, 202, 207, 208, 209, 212, 213, 214, 216
 physical constraint, 15
 price ceiling, 152, 160
 price floor, 57, 61, 151, 152, 153, 156, 157, 158, 159, 161, 162–166, 170–173, 174, 175
 revenue constraint, 11, 13–14, 53, 73, 74, 85, 101
 self-sufficiency constraint, 2, 160
 stability, 34, 35, 36, 38, 39, 40
- Contestable markets, 36
- Cost of protection studies, 2, 7, 11, 52, 83, 112
- Countervailing duties, 41
- Cournot behavior, 26, 34, 39, 40, 85, 103, 105, 107
- Cournot-Nash equilibrium, 39
- Credibility, 32, 37, 39, 175
- Dasgupta, P., and J. E. Stiglitz, 73, 177
- Davis, Otto A., and Andrew B. Whinston, 91
- Deaton, Angus, 21, 87
- Deaton, Angus, and John Muellbauer, 58, 86, 92, 106
- Distortions, 10, 11, 12, 14, 15, 16, 18, 21, 26, 63, 80, 83, 85, 86, 89, 96, 102, 107, 112, 115, 175, 209
- Distributive justice, 11, 20, 27, 80
- Dixit, Avinash, 53
- Dixit, Avinash, and Victor Norman, 88, 179
- Dixon, Peter, 52
- Dumping, 26, 41, 42
- Dynamic learning, 33, 37, 47
- Econometric models
 cheese, 58–69
 textile industry, 120–129
- Elasticity
 cross-price, 26, 84, 92, 103
 demand, 1, 4–5, 14, 31, 53, 59–60, 68–69, 118, 122, 123, 124, 125, 127, 128, 144, 148, 149
 employment, 118, 129
 expenditure, 92
 income, 71, 195
 labor, 127
 output, 127, 128
 substitution, 52, 55, 56
 supply, 14, 21–22, 36, 79, 98, 195
- Eldor, Rafael, 219
- Emery, Harien, 56
- Endogeneity of protection, 15–21
- Equivalence
ad valorem and specific tariffs, 93
 tariffs and quotas, 1–2, 3–4, 32, 33, 37, 40, 42, 48, 51, 107, 111
- Ethier, Wilfred J., 26
- European Economic Community (EC), 12, 151
- Ex ante commitment, 153, 156, 166, 168, 169, 175, 195
- “Fair” market share, 17
- Falvey, Rodney E., 9, 84, 94
- Feenstra, Robert, 84
- Fishelson, G., and F. Flatters, 73, 177
- Flatters, F. *See* Fishelson, G., and F. Flatters
- Flemming, J. S., S. J. Turnovsky, and M. C. Kemp, 195
- Flexibility, 4, 21, 111, 178–179, 210, 216
- Foreign exchange licenses, 8, 10, 77, 143, 211
- Forrester, Jay, 20
- Free rider problem, 16, 18
- Friedman, Milton, 19
- Friend, I., and M. E. Blume, 132, 195
- Functional forms
 AIDS (Almost Ideal Demand System), 52, 58, 62
 CES (constant elasticity of substitution), 55
 Cobb-Douglas, 68–69
 Leontief, 55
- Gains from exchange, 6, 7, 8, 15
- Gains from trade, 6, 146, 179, 184

- GATT (General Agreement on Tariffs and Trade), 20, 79
- Hammond, Peter, 79
- Helpman, Elhanan, and Assaf Razin, 27, 177, 194–195
- Hicks, John, 106
- Hillman, Arye L. *See* Cassing, James H., and Arye L. Hillman
- Hong Kong, 6, 201, 203, 204, 206, 216
- Human capital (specific), 89, 98
- Imperfect competition, 1, 2, 4, 5, 18, 31–49, 85, 102–105
 monopoly power, 1, 4, 26, 31, 37, 103
 price-setting behavior, 32–33, 35–37, 39–40, 41–42, 44–46
 quantity-setting behavior, 32–33, 34–45, 38–39, 40, 43–44
- Incidence analysis, 2, 52
- Industrial policy, 48
- Industries
 auto, 1, 5, 7, 18, 21, 46, 84, 98, 103
 cheese, 5, 6, 7, 8, 17, 51–72, 133, 151, 157, 201, 203, 206
 dairy, 26, 51, 53, 55–58, 151, 178
 footwear, 84
 steel, 1, 7, 41, 46
 sugar, 7, 17, 106
 textiles, 1, 6, 7, 11, 12, 20, 21, 112, 113, 116, 120, 130, 133, 150, 201, 203, 204, 205, 215, 216
- Intermediate goods, 85, 86, 98–101, 107
- International Trade Commission (ITC), 8, 16, 46, 71
- Invisible hand, 10, 12, 111, 112, 208
- Ireland, N. J., 73, 177
- Japan, 5, 18, 21, 41, 84, 102
- Joint cost function, 104
- Jones, R. W. *See* Caves, R. E., and R. W. Jones
- Kemp, M. C. *See* Flemming, J. S., et al.
- Krishne, Kala, 103
- Krueger, Anne O., 18
- Laffont, J. J., 73, 177
- “Level playing fields,” 17
- “Limits-to-growth,” 20
- Lobbying, 11, 16, 17, 18, 19, 46, 48, 52, 178
- Malcomson, J. M., 73, 177
- Marginal utility of income, 14, 24, 80, 115, 138, 145, 153, 177, 179, 180, 181, 183, 185, 189, 191, 195, 219
- Markets
 capital, 10, 11, 13, 14, 27, 219
 imperfect, 13
 incomplete, 14, 26, 27
 interference, 1, 6, 12, 41, 157, 202, 203
 for protection, 16–19
- Marshall, Alfred, 106
- Martin, R. C. *See* Pelzman, J., and R. C. Martin
- Mathematical tools
 Antonelli matrix, 106
 envelope theorem, 23, 88, 99, 100, 114, 115, 164
 expenditure function, 60, 63, 95
 Goldman-Uzewe theorem, 106
 Hotelling’s lemma, 22, 23
 indirect utility function, 22, 23, 43, 44, 59, 86, 87, 100, 101, 114, 145, 179
 Jensen’s inequality, 174
 mean value theorem, 93, 94, 162
 mean value theorem, second, 131, 146, 184, 186, 195
 reduced form primal methodology, 21–24, 43–45, 86–90, 98–101, 102–105
 employment function, general
 equilibrium reduced form, 89, 100
 indirect utility function, general
 equilibrium, 88, 100
 indirect utility function, reduced form, 43, 45, 115
 indirect utility function, reduced form
 general equilibrium, 87, 88, 104
 inverse demand function reduced form, 86, 88, 104
 primal utility function, reduced form, 23
 revenue function, 22, 88, 179
 Roy’s equality, 23, 43, 45, 114, 179
 Shepard’s lemma, 59
 Slutsky decomposition, 23, 24
 Slutsky matrix, 59, 84, 94, 106
- Maximin criterion, 166
- Muellbauer, John. *See* Deaton, Angus, and John Muellbauer
- Multifiber Arrangement, 213
- Multilateral negotiations, 20, 120
- Multiple block tariff schedule, 190
- Nadiri-Rosen dynamic factor demand system, 121

- Neary, Peter, 106
- Newbery, D. M. G., and J. E. Stiglitz, 152, 175
- Norman, Victor. *See* Dixit, Avinash, and Victor Norman
- Objectives/targets
 average employment, 112, 114, 116, 124
 expenditure (expected foreign exchange value of imports), 9, 69, 71, 74, 76, 77, 78, 79, 85, 142, 144, 177, 179, 202, 211
 expenditure variability, 142–143
 imports, aggregate quantity, 2, 5, 8, 24, 53, 54, 80, 83, 111
 imports, aggregate value, 2, 8, 83
 imports, average (expected) level, 24, 27, 69, 73, 74, 75, 76, 78, 79, 137, 138, 177, 178, 179, 184, 207
 imports, critical level, 24, 137, 138, 140
 imports, variability, 24, 140–142
 income smoothing, 14–15, 24, 27, 115, 153
 joint profit maximization, 32, 34, 36, 104
 stabilization, 13, 151, 152, 154, 180, 190
 surplus, domestic expected, 73, 74, 80, 137, 138, 139, 140, 142, 144, 145, 208
 surplus, expected, 24, 75, 80, 125, 127, 153, 177, 183, 207
 surplus, world expected, 73, 74, 77, 78, 145
 utility, expected, over imports, 179, 182, 184, 185, 190
 utility, expected, over income, 133, 178
 utility, representative consumer, 54, 86, 89, 101, 104, 114, 145
- Oi's theorem, 174
- Optimal tariff (Egworth-Bickerdike), 5, 22, 26, 86, 145, 150, 212
- Options, 10, 130, 201–216
- Orderly marketing arrangements (OMA), 20
- Panzar, John, 36
- Pelcovits, M. G., 73, 76, 152, 177, 185
- Pelzman, J., and R. C. Martin, 112, 116, 120, 121, 124, 134
- Perceived demand, 5, 31–32, 33, 34, 104
- "Piecemeal" second-best structure, 91
- Political economy model, 3, 8, 15, 16–19
- Political route to protection, 16, 46
- Presidential authority, 15, 56, 57, 71
- Price-break quotas, 157, 162
- Product heterogeneity, 1, 2, 4, 5–10, 18, 51, 56, 67, 69, 83, 84, 86, 105, 111, 112, 113
- Protection, motives for, 1, 2, 5, 8, 10–15, 53, 86, 101–102, 112, 130, 137
- Quality upgrading, 9, 84, 95, 102–105
- Quotas, allocation methods, 1, 5, 17, 51
 auction, 3, 8, 9, 19, 37, 51, 53, 86, 113, 204
 base year market share, 5, 51, 55, 56, 92
 bureaucratic discretion, 6, 7, 17, 18, 51, 53, 56, 111
 market system, 5, 6, 201
 political/national security motives, 17
 property rights, 7, 20, 37, 205
 random, 203, 205
- Quotas, hiddenness, 17, 19, 212, 219
- Quotas, inefficiency estimates, 7, 11, 52, 55, 64–69, 112–113, 123–129, 133
- Quotas, pricing of licenses as options
 execution value, 203–205
 reservation value, 203–205
- Ramsey prices, 71, 155
- Randomness/uncertainty, 7, 14–15, 19–20, 22, 24, 26, 73–79, 83, 112, 114, 120–121, 122–123, 137–149, 154, 165, 177, 178, 179, 194, 216
- Ranking
 dominance of *ad valorem* tariff, 13, 14, 74, 76, 79, 83, 84, 85, 86, 91, 92, 94, 95, 96, 98, 99, 101, 102, 103, 105, 107, 142, 143, 177
 dominance of *ad valorem* tariff quota, 137, 144
 dominance of quotas, 11, 12, 13, 14, 15, 19–21, 26, 37, 48, 113, 118, 119, 133, 141, 153, 161–162, 178, 184–185, 192
 dominance of specific tariff, 11, 13, 73, 74, 76, 78, 79, 83, 85, 95, 96–98, 112, 116, 118, 119, 124, 138, 142, 161, 177, 185–187
 dominance of specific tariff quota, 137, 139, 140–141
 second-best instruments, 21, 84, 85, 93–98, 184–187
 tariffs and quotas, 1–2, 4–10, 13, 15, 31–32, 37, 44, 45–46, 48, 52, 79, 111, 112, 113, 118, 133, 134, 162, 177, 178, 192
- Razin, Assaf. *See* Helpman, Elhanan, and Assaf Razin

- Reaction functions, 33, 35, 36, 38, 40, 41, 45, 47, 48
 Reference price system, 41
 Rent-seeking, 16, 17, 18, 64
 Resale of licenses, 6, 17, 51, 56, 84, 201, 202, 212–215, 218, 219
 Retaliation, 5, 32
 Revenue (rent) capture/distribution, 3–4, 7, 17–18, 21, 31, 40, 41, 43, 51, 54, 113, 130, 213
 Richardson, J. D., 178, 195
 Riezman Raymond, 106
 Riley, J. G. *See* Anderson, James E., and J. G. Riley
 Roberts, Mark. *See* Aw, Bee Yan, and Mark Roberts
 Robson, A., 37, 39
 Rodriguez, Carlos, 5
 Rom, M., 149, 150
 Rotemberg, J., and G. Saloner, 37, 38, 48

 Saloner, G. *See* Rotemberg, J., and G. Saloner
 Scholes, Myron. *See* Black, Fischer, and Myron Scholes
 Sensitivity analysis, 12, 68–69, 123, 127–129
 Smoot-Hawley Tariff, 18
 Social planner, 15, 21, 24, 74, 105, 152, 153, 156, 177, 208, 209, 210, 211, 213
 Special Trade Representative, 16, 46, 120
 Stackelberg behavior, 47–48
 State-contingent policies, 8, 74, 77, 78, 79, 80, 113, 116, 123, 124, 125, 139, 141, 143, 156, 168, 183
 Stiglitz, J. E. *See* Atkinson, Anthony, and J. E. Stiglitz; Dasgupta, P., and J. E. Stiglitz; Newbery, D. M. G., and J. E. Stiglitz
 Substitutability, 4, 33, 86, 95, 96, 97, 101, 103, 106, 159, 160
 Substitution effect, 9, 20, 68, 84, 85, 94

 Tariff quota, 12, 69, 137–146, 157, 162, 219
 “Tatonnement” mechanism, 34, 36
 “Third-best” commercial policies, 153, 160–162
 Time dimension, 9–10, 121, 166, 199–216
 Time inconsistency, 175
 Turnovsky, S. J., 195. *See also* Flemming, J. S., et al.

 Uncertainty
 additive, 13, 214
 domestic, 13, 14, 159, 161, 162, 174, 178, 187–192
 foreign, 13, 14, 15, 159, 160, 161, 162, 174, 188, 192
 multiplicative, 13, 118, 150, 187, 193
 Use-it-or-lose-it requirements, 201, 202, 203, 205, 206, 208, 210, 211, 215

 VER (voluntary export restraint), 4, 6, 7, 16, 17, 18, 20, 21, 27, 46, 84, 102, 104, 113, 129, 130, 202, 206, 207, 212–215, 218
 VET (voluntary export tax), 20, 21, 113, 129, 130

 Weitzman, Martin, 27, 73, 74, 177, 195
 Welfare analyses, 4, 6, 22, 26, 31, 32, 43–46, 52, 60–69, 71, 73–79, 90–93, 99, 114–117, 124–125, 131–132, 133, 141–142, 153, 167–169, 174, 212–213
 Whinston, Andrew B. *See* Davis, Otto A., and Andrew B. Whinston
 Willig, Robert, 36
 Willingness to pay, 6, 13, 94
 Woodland, A. D., 179

 Yohe, G. W., 73, 177
 Young, Leslie, 13, 73, 74, 80, 145, 150, 174, 177, 195
 Young, Leslie, and James E. Anderson, 14, 69, 112, 115, 137, 138, 141, 145, 150, 153, 160, 177, 183, 219; *See also* Anderson, James E., and Leslie Young