

Author Index

- Admati, Anat R., 4
Akerlof, George A., 166
Allen, B., 31
Aranow (economist), 159, 160, 161
Arrow, K. J., 12, 32, 36, 82, 88
Ash, Robert B., 88, 110
Azariadis, Costas, 190
- Barro, Robert J., 12, 208, 209
Benninga, S., 140
Berlstein (economist), 159, 161
Black, Fischer, 7, 8, 139, 140
Blackwell, D., 57
Blanchard, Olivier J., 192
Blejer, Mario I., 208
Blume, M., 140
Bray, M., 37
Brennan, M., 140
Brudney, Y., 161
- Chirelstein, M., 161
Cootner, P., 88
Cox, J., 140
Cyert, R., 36
- Danthine, J., 37, 59
Dasgupta, Partha S., 209
Debreu, G., 36
De Groot, M., 36
Diamond, Douglas W., 4
Dodd, P., 149, 161
Dusak, K., 88
- Einhorn (economist), 159, 160, 161
- Fama, E., 50, 52, 108
Fischer, Stanley, 207
- Fisher, L., 14
Friedman, Benjamin M., 207, 210
Futia, C. A., 37
- Gammill, J. F., 8
Gort, M., 161
Green, J. R., 19, 31, 32, 42, 63, 70, 92, 114
Grossman, Sanford J., 6, 8, 18, 34, 36, 37, 40, 41, 43, 47, 53, 59, 69, 86, 88, 89, 92, 105, 108, 114, 129, 139, 140, 141, 146, 154, 159, 162, 163, 166, 167, 169, 188, 190, 193, 194, 209, 210
- Hammond, Peter, J., 209
Hardy, C. O., 88
Harris, Milton, 209
Hart, Oliver D., 146, 154, 159, 163, 167, 169, 188, 190, 193, 194, 203, 209, 210
Hayek, F. H., 1, 32, 35, 108, 134
Hellwig, M. F., 8, 37
Hicks, J. R., 13, 16
Hirshleifer, J., 63, 70–71
Hoel, Paul G., 87, 110
Holmstrom, Bengt, 209
- Intriligator, M. D., 12, 32
- Jones, R., 140
Jordan, J., 37, 59
- Keynes, J. M., 82
Kidder, Peabody & Co., 120, 136
Kihlstrom, R. E., 37, 40, 44–45, 64, 70, 89, 92, 114
Kreps, D. M., 1, 32, 59
Kyle, Albert S., 8

- Leiderman, Leonardo, 208
 Leland, Hayne E., 6, 8, 139, 140, 171
 Lilien, David M., 206
 Lintner, J., 82, 161
 Lucas, Robert E., Jr., 18–19, 24, 31, 35, 42,
 63, 92, 192, 197, 209

 Manne, H. G., 161
 Marsh, T., 8
 Marshall, Alfred, 12
 Maskin, Eric S., 209
 Merton, Robert C., 6, 8
 Michael, Robert T., 207
 Milgrom, Paul, 8, 174
 Miller, M., 141
 Mirman, L. J., 37, 40, 44–45, 64, 70, 89,
 92, 114
 Modigliani, Franco, 207
 Mueller, D., 161
 Muth, J. R., 14, 15–16
 Myerson, Roger B., 209

 Nerlove, M., 14, 36

 Parks, Richard W., 209
 Perold, A., 140
 Plott, C. R., 36

 Radner, R., 12, 31, 32, 36
 Raiffa, H., 57
 Rao, C., 112
 Roll, R., 8
 Ross, Stephen, 169
 Ruback, R., 149, 161
 Rubinstein, M., 8, 140

 Salop, Steven C., 182
 Sandor, R., 82
 Schlaifer, R., 57
 Scholes, M., 7, 139
 Schumpeter, Joseph, 170
 Schwartz, E., 140
 Sharpe, W. F., 41, 43, 45
 Shiller, R., 8, 12
 Sims, Christopher A., 208
 Smiley, R., 161
 Spence, Michael, 168
 Starr, R., 70
 Stiglitz, Joseph E., 8, 34, 53, 59, 70, 114,
 141, 181
 Stokey, Nancy, 8
 Sunder, S., 36

 Taylor, John B., 212
 Telser, L., 88
 Tobin, J., 43, 45
 Townsend, Robert M., 209

 Verrecchia, Robert E., 4
 Vila, J. I., 140

 Weiss, Laurence, 209, 210
 Wilson, Charles, 166

Subject Index

- Acquisitional takeover bid, 148–151
 - vs. allocational bid, 150–151
 - defined, 148, 159
- Adaptive expectations model, 14
- Aggregate demand shifts, vs. relative, 208–209
- Aggregate employment, and relative demand shocks, 206
- Aggregate output, and relative price shocks, 206
- Aggregate shock
 - defined, 190
 - unemployment with observable, 190–212
- Allocational takeover bid
 - vs. acquisitional bid, 150–157
 - defined, 144, 159
- Arbitrageurs, informed individuals as, 91
- Arrow-Debreu economy, 59
- Artificial economy, as Arrow-Debreu economy, 51
- Artificial equilibrium, 43
- Artificial, fully informed equilibrium, 22–23

- Buy and hold investors, and dynamic hedging strategy, 127–129
- Buy and hold portfolio managers, 124

- Capital, available for market-training activities, 122–124
- Capital Asset Pricing Model (CAPM), 40, 41, 51
- Capital assets, implications for pricing of, 51–52
- Cobb-Douglas utility functions, 201, 210
- Commodity futures markets, Keynes-Hicks theory of, 62
- Competition, fundamental role of, 166
- Competitive cases, 178
- Competitive equilibrium, defined, 91
- Competitive markets, fundamental role of, 35
- Constant Absolute Risk-Aversion Model, 94–105
 - and characterization of equilibrium, 100–101
 - and characterization theorem, 97–98
 - and comparative statics, 101–103
 - and costly information, 103–105
 - and equilibrium in information market, 98–99
 - and equilibrium price distribution, 96–97
 - and existence of equilibrium, 97–98
 - and existence of overall equilibrium, 99–100
 - and individual's utility maximization, 95–96
 - and securities, 94–95
- Constant proportion portfolio insurance (CPPI), 126
- Contingent commodity contracts, Debreu's, 62
- Contingent income contracts, 88
- Corporate charter
 - and minority shareholders, 160
 - and takeover bids, 146, 152
- Costly information, implications of, 52–55
- Costly trade, implications of, 52–55

- Demand schedules, notions of, 3
- Demand shifts, relative vs. aggregate, 208–209
- Disciplinary bids, analysis of, 163

- Disclosure
 - excessive, 183–184
 - full, 170
 - indirect, 174–181
 - positive, 169–170, 189
 - private, 168–174
 - unwarranted, 169
- Disclosure equilibrium, formal definition of, 184–186
- Disclosure laws, as very broad, 183, 189
- Dynamic hedging strategies
 - and buy and hold investors, 127–129
 - and implications for price volatility, 117–142, 119
 - and market timers, 127–129
 - and real put options market, 129–130
 - role of, 135
- Efficient capital market, 41, 50
- Efficient Markets theorists, 108
- End of period wealth, 98
- Equilibrium
 - artificial, 22–23, 43
 - under asymmetric information, 17–25, 201–203
 - competitive, 91
 - defined, 65–66
 - disclosure, 184–186
 - general, with physical productivity shocks, 195–197
 - market, 126–132
 - nature of, 94
 - public prediction, 37
 - rational expectations, 25
 - Walrasian, 12, 23
- Equilibrium price, 24
 - and allocations produced, 40
- Equilibrium price random variable, R.E.
 - competitive equilibrium as, 42
- Exclusion, importance of, 147
- Expected utility, and trader information, 92–93
- Financial panic, interpreting a, 4–8
- Firms, in intermediate good industries, 200–205
- Free entry, case of, 170
- Full insurance point, 178, 179, 181
- Fundamentals, and price determination, 121–122
- Futures markets
 - existence of, 62–90
 - impact of portfolio insurance on, 119–122
 - and index arbitrage, 132–133
 - informational role of, 63, 71–79
 - introduction of, 79–86
- Futures trading
 - factors determining volume of, 84
 - incentives for, 63
- General equilibrium, with physical productivity shocks, 195–197
- Government intervention, and takeover bids, 157–158, 159
- Index arbitrage, 132–133
- Index arbitrageurs, as natural buyers of futures, 132–133
- Index options, role of, 134
- Indirect disclosure, warranties and, 174–181
- Information
 - cost of, and equilibrium percentage of informed individuals, 93
 - transfer of, 98
- Information collection
 - gains from, 63, 70
 - overinvestment in, 63, 70
- Information transfers, without futures markets, 64–71
- Informational efficiency, of competitive stock markets, 40–61
- Informational externalities, 70, 87
- Informationally efficient markets, impossibility of, 91–116
- Informed traders, 19, 31
 - and expected utility, 92–93
- Keynes-Hicks theory, of commodity futures markets, 62
- Known-quality contract, 182
- Leland, O'Brien, Rubinstein & Associates, 136
- "Lemons problem," 166, 175
- Limit orders, 3
- Long-run theory, 12
- Marginal value products (of labor)
 - and marginal disutility of effort, 203–204
 - and relative price movements, 205
- Market clearing, 2–3
- Market-clearing price, 24
 - definition of, 20
 - as sufficient statistic, 52

- Market equilibrium, and dynamic hedging strategies, 126–132
- Market makers, 122–124
- Market orders, 3
- Market shutdown, 55
- Market timers, 121, 122–124
 - capital commitments of, and volatility, 131
 - and dynamic hedging strategy, 127–129
- Market-timing capital, 120
- Markets, sufficient set of, 87
- Monopolist
 - and full disclosure, 170
 - optimal warranty of, under asymmetric information, 186–188
 - and warranties, 167–168
- Monopsony, in takeover markets, 157
- Moral hazard, 183
- Net employment, cross sectional variability of, 206
- New York Stock Exchange (NYSE), 132
 - and expression of demand, 3
- Noise
 - defined, 63
 - effect of futures market on, 80–81
 - in futures market, 71–79
 - and imprecise price system, 98
 - and proportion of informed traders, 101–102
 - and size of expectations difference, 78–79
- Noninformation based trading, 5–6
- Normal price, Marshall on, 13
- Optimal employment contract, 193–195
- Optimal exclusion factor, 151–157
- Optimal labor contracts, in intermediate good industries, 199–205
- Optimal portfolio insurance, 140
- Other consumers, role of, 201
- Panic, definition of, 7–8
- Path-dependent strategy, 126
- Perfect foresight, 13
- Perfect markets, possibility of, 107–109
- Physical productivity shocks, general equilibrium with, 195–197
- Portfolio insurance
 - feasibility of, 129
 - impact of on futures markets, 119–122
 - and price impact problem, 120
 - real/synthetic securities, 118
 - as trading strategy, 6, 7
- Portfolio insurers, 124–126
- Positive disclosure, role of, 169–170
- Positive disclosure laws, 169
 - as very broad, 183, 189
- Preannounced trading, 136
 - purpose of, 120
- Premiums bid, 160
 - reasons for, 163–164
- Price level, changes in, 192
- Price system, informative, 93, 101–103
- Price volatility. *See* Volatility
- Prices, informational role of, 1–4, 32–36
- Private disclosure, model of, 168–174
- Private gains, from information collection, 63, 70
- Product quality
 - private disclosure about, 166–189
 - warranties as measure of, 175–176, 178–181
- Profits, and futures trading, 86
- Program trading, and implications for price volatility, 117–142
- Public prediction equilibrium, 37
- Put options
 - insufficient, and dynamic hedging strategies, 130–132
 - as redundant security, 130
- Rational expectations, 14–17
 - under asymmetric information, 11–38
 - as condition of market equilibrium, 17
 - noisy, 62–90
 - and panic, 7
 - price function, 3
- Rational expectations equilibrium, property of, 25
- Rational expectations equilibrium price, as sufficient statistic, 49
- Rational expectations price vector, 33
- Rational expectations prices, existence and information content of, 26–32
- Rational inferences, 182
- Rationality, as in R.E. approach, 5
- Real put options market, and dynamic hedging strategy, 129–130
- Relative demand shifts, *ve.* aggregate, 208–209
- Relative demand shocks, 197–205
 - cause of, 197
- Relative price variability
 - as cause of aggregate output variability, 205–206
 - causes of, 206–208
- Replication, 23

- Revaluation effect, 160
- Risk aversion, and volume of futures trading, 82–84
- Risky asset, true value of, 107
- Securities, distinction between real and synthetic, 117–118
- Securities and Exchange Commission, and limit on stock index option contracts, 134
- Shareholders
 - and acquisitional bids, 151
 - minority, in takeover bids, 146, 160
 - position of after bidding, 153–154
 - rational expectations of, 147, 151
- Shocks
 - and physical productivity, 195–197
 - relative demand, 197–205
 - relative price, 206
- Short-run analysis, 13
- Signaling arguments, 168
- Social gains, from information collection, 63, 70
- Social return, vs. private return, 154–155
- Social welfare
 - and acquisitional bids, 156
 - and allocational bids, 155–156
- Speculative capital, 82
- Speculative markets, thinness of, 105–107
- Spot prices, and traders' information, 62–63, 69
- Standard and Poor (S&P) 500 futures market, 132–133
- Stock Index Futures, 120
- Strategies
 - marketing of, 118–119
 - use of, 6–7
- Sufficiency, concept of, 57
- Sunshine trading, use of, 120, 136
- Synthetic hedging strategies, market impact of, 137
- Synthetic securities, users of, 124–126
- Takeover bid process, as return on information collection, 145
- Takeover bids
 - allocational role of in situations of asymmetric information, 143–165
 - hostile, 161
 - and incentive to invest, 157–158
- Technicians, 43, 52
- Tender offer, unconditional, 146
- Tobin's separation theorem, 47, 51
- Total employment, and redistribution of wealth, 192–193
- Trade
 - and differences in beliefs, 106, 108
 - and differences in endowment, 105
 - and differences in risk preference, 105
- Traders, types of, 31
- Unemployment, with observable aggregate shocks, 190–212
- Uninformed traders, 5, 19, 31
 - and expected utility, 92–93
- Unknown-quality contract, 182
- Unwarranted disclosures, 169
- Utility, as negative, 100
- Volatility
 - and adoption intensity, 131–132
 - implications for of program trading and dynamic hedging strategies, 117–142
 - and price reversals, 123
- Walrasian employment level
 - and aggregate employment, 197
 - and asymmetry of information, 197
 - as complete, 196
- Walrasian equilibrium
 - and asymmetric information, 203–205
 - compared with artificial, fully informed equilibrium, 23
 - contrasted with R.E. equilibrium, 12
- Walrasian notion of demand, 2–4
 - failure of, 4–8
- Warranties
 - and indirect disclosure, 174–181
 - informational role of, 166–189
 - as measure of quality, 175–176
 - monopolist's optimal, under asymmetric information, 186–188
- Wealth, definition of, 210–211
- Wealth redistribution
 - as cause of relative demand shocks, 197
 - and relative price change, 206–208
 - and relative price movements, 205
 - and total employment, 192–193
- Welfare economics, 50–51
 - classical theorem of, 51
- Workers, in intermediate good industries, 200–205