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An Introduction by the editor to all three volumes appears in Volume I

## PART I UNCERTAINTY AND FINANCIAL MARKETS

1. Kenneth J. Arrow (1963), 'Uncertainty and the Welfare Economics of Medical Care', *American Economic Review*, **53** (5), December, 941-73 3
2. Louis Bachelier (1900), 'Theory of Speculation' ('Théorie de la Speculation', *Annals de l'Ecole Normale Supérieure*, **3**, Paris: Gauthier-Villars), translated by A. James Boness, in Paul H. Cootner (ed.) (1964), *The Random Character of Stock Market Prices*, Chapter 2, Cambridge, MA: MIT Press, 17-78 and references 36
3. Graciela Chichilnisky (1985), 'Von Neumann-Morgenstern Utilities and Cardinal Preferences', *Mathematics of Operations Research*, **10** (4), November, 633-41 98
4. I.N. Herstein and John Milnor (1953), 'An Axiomatic Approach to Measurable Utility', *Econometrica*, **21** (2), April, 291-7 107
5. Mark J. Machina (1982), '"Expected Utility" Analysis without the Independence Axiom', *Econometrica*, **50** (2), March, 277-323 114
6. E. Malinvaud (1973), 'Markets for an Exchange Economy with Individual Risks', *Econometrica*, **41** (3), May, 383-410 161
7. Bruno de Finetti (1937), 'Foresight: Its Logical Laws, Its Subjective Sources', translated by Henry E. Kyburg, Jr., in Henry E. Kyburg, Jr. and Howard E. Smokler (eds) (1964), *Studies in Subjective Probability*, New York: John Wiley, 97-158, 95-6 (translator's note) 189
8. Kenneth J. Arrow (1970), 'Exposition of the Theory of Choice under Uncertainty', in K. Arrow (ed.), *Essays in the Theory of Risk-bearing*, Chapter 2, Amsterdam and Oxford: North-Holland, 44-89 253
9. Graciela Chichilnisky (1996), 'Markets with Endogenous Uncertainty: Theory and Policy', *Theory and Decision*, **41** (2), September, 99-131 299
10. Nicholas C. Yannelis (1991), 'The Core of an Economy with Differential Information', *Economic Theory*, **1** (2), 183-97 332
11. Graciela Chichilnisky and Geoffrey Heal (1996), 'On the Existence and the Structure of the Pseudo-Equilibrium Manifold', *Journal of Mathematical Economics*, **26** (2), 171-86 347
12. Darrell Duffie and Wayne Shafer (1985), 'Equilibrium in Incomplete Markets: I: A Basic Model of Generic Existence', *Journal of Mathematical Economics*, **14** (3), 285-300 363

13. Fischer Black and Myron Scholes (1973), 'The Pricing of Options and Corporate Liabilities', *Journal of Political Economy*, **81** (3), May/June, 637-54 379
14. Leonard J. Savage (1971), 'Elicitation of Personal Probabilities and Expectations', *Journal of the American Statistical Association*, **66** (336), December, 783-801 397

## PART II STABILITY AND COMPUTATION

15. Richard H. Day and Giulio Pianigiani (1991), 'Statistical Dynamics and Economics', *Journal of Economic Behavior and Organization*, **16**, 37-83 419
16. B. Curtis Eaves and Herbert Scarf (1976), 'The Solution of Systems of Piecewise Linear Equations', *Mathematics of Operations Research*, **1** (1), February, 1-27 466
17. Morris W. Hirsch and Stephen Smale (1979), 'On Algorithms for Solving  $f(x) = 0$ ', *Communications on Pure and Applied Mathematics*, **XXXII**, 281-312 493
18. Steve Smale (1983), 'On the Average Number of Steps of the Simplex Method of Linear Programming', *Mathematical Programming*, **27**, 241-62 525
19. Paul A. Samuelson (1949), 'Market Mechanisms and Maximization', Research Memoranda (Parts I, II and III), RAND Corporation, Santa Monica, California. Reprinted in Joseph E. Stiglitz (ed.) (1966), *The Collected Scientific Papers of Paul A. Samuelson*, Volume 1, Chapter 33, Cambridge, MA: MIT Press, 425-92 547
20. Geoffrey Heal and Darryl McLeod (1984), 'Gains from Trade, Stability and Profits: A Comment on Chichilnisky's "Terms of Trade and Domestic Distribution: Export-led Growth with Abundant Labour"', *Journal of Development Economics*, **15**, 117-30 615