

Contents

1	Prerequisites	1
1.1	Choices Under Certainty	2
1.2	General Equilibrium Theory	7
1.3	Pareto Optimality and Aggregation	8
1.4	Notes and Further Readings	12
2	Choices Under Risk	15
2.1	Expected Utility Theory	19
2.2	Risk Aversion	24
2.3	Stochastic Dominance.....	34
2.4	Mean-Variance Analysis	38
2.5	Notes and Further Readings	48
2.6	Exercises	51
3	Portfolio, Insurance and Saving Decisions	55
3.1	Portfolio Theory	55
3.2	Mean-Variance Portfolio Selection	76
3.3	Insurance Demand.....	102
3.4	Optimal Saving and Consumption.....	110
3.5	Notes and Further Readings	113
3.6	Exercises	116
4	General Equilibrium Theory and No-Arbitrage	123
4.1	Pareto Optimality and Risk Sharing	127
4.2	Asset Markets and Equilibria	138
4.3	Equilibrium with Intertemporal Consumption	149
4.4	The Fundamental Theorem of Asset Pricing	164
4.5	Notes and Further Readings	190
4.6	Exercises	192
5	Factor Asset Pricing Models: CAPM and APT	201
5.1	The Consumption Capital Asset Pricing Model (CCAPM)	202
5.2	The Capital Asset Pricing Model (CAPM).....	213

5.3	Empirical Tests of the CAPM	220
5.4	The Arbitrage Pricing Theory (APT).....	230
5.5	Empirical Tests of the APT	241
5.6	Notes and Further Readings	245
5.7	Exercises	250
6	Multi-Period Models: Portfolio Choice, Equilibrium and No-Arbitrage	255
6.1	Optimal Investment and Consumption Problems	259
6.2	Equilibrium and Pareto Optimality	280
6.3	The Fundamental Theorem of Asset Pricing	292
6.4	Asset Pricing Relations	310
6.5	Infinite Horizon Economies and Rational Bubbles	324
6.6	Notes and Further Readings	330
6.7	Exercises	337
7	Multi-Period Models: Empirical Tests	347
7.1	Tests on the Price-Dividend Process: Bubbles and Excess Volatility	349
7.2	Tests on the Price-Dividend Process: Return Predictability	362
7.3	Tests on Intertemporal Equilibrium Models	378
7.4	Notes and Further Readings	387
7.5	Exercises	392
8	Information and Financial Markets	397
8.1	The Role of Information in Financial Markets.....	403
8.2	On the Possibility of Informationally Efficient Markets.....	415
8.3	On the Impossibility of Informationally Efficient Markets.....	427
8.4	Information in Dynamic Market Models	445
8.5	Difference of Opinions	451
8.6	Empirical Analysis	458
8.7	Notes and Further Readings	462
8.8	Exercises	469
9	Uncertainty, Rationality and Heterogeneity	479
9.1	Probability, Risk and Uncertainty	480
9.2	On Expected Utility Theory	488
9.3	Beyond Substantial Rationality	520
9.4	Bounded Rationality and Distorted Beliefs	541
9.5	Incomplete and Imperfect Markets	551
9.6	Notes and Further Readings	566
9.7	Exercises	574
10	Financial Markets Microstructure	583
10.1	The Role of Information Under Imperfect Competition.....	585
10.2	Order-Driven Markets	594
10.3	Quote-Driven Markets	607

10.4	Multi-Period Models of Market Microstructure	619
10.5	Market Abuse: Insider Trading and Market Manipulation	629
10.6	Market Design	634
10.7	Notes and Further Readings	644
10.8	Exercises	650
11	Solutions of Selected Exercises	661
11.1	Exercises of Chap. 2	661
11.2	Exercises of Chap. 3	667
11.3	Exercises of Chap. 4	678
11.4	Exercises of Chap. 5	689
11.5	Exercises of Chap. 6	695
11.6	Exercises of Chap. 7	715
11.7	Exercises of Chap. 8	721
11.8	Exercises of Chap. 9	736
11.9	Exercises of Chap. 10	751
	References	765
	Index	829