Table of Contents

1	Int	roduction	1	
I	Mo	ney, Bonds and Economic Activity		
2	Mo	ney, Bonds and Interest Rates	9	
	2.1	Introduction	9	
	2.2	Some Basics	9	
	2.3	Macroeconomic Theories of the Interest Rate	10	
	2.4	Monetary Policy and Interest Rates	13	
	2.5	Monetary Policy and Asset Prices	14	
	2.6	Conclusions	15	
3	Ter	Term Structure of Interest Rates		
	3.1	Introduction	17	
	3.2	Definitions and Theories	17	
	3.3	Empirical Tests on the Term Structure	19	
	3.4	Conclusions	23	
II	The	e Credit Market and Economic Activity		
4	Theories on Credit Market, Credit Risk and Economic Activity			
	4.1	Introduction	27	
	4.2	Perfect Capital Markets: Infinite Horizon and Two Period Models	27	
	4.3	Imperfect Capital Markets: Some Basics	35	
	4.4	Imperfect Capital Markets: Microtheory	37	
	4.5	Imperfect Capital Markets: Macrotheory	39	
	4.6	Imperfect Capital Markets: The Micro-Macro Link	43	
	4.7	Conclusions	48	
5	Empirical Tests on Credit Market and			
	Economic Activity			
	5.1	Introduction	49	
	5.2	Bankruptcy Risk and Economic Activity	49	
	5.3	Liquidity and Economic Activity in a Threshold Model	55	
	5.4	Estimations of Credit Risk and Sustainable Debt	63	
	5.5	Conclusions	76	



<u>—</u> —	The	Stock Market and Economic Activity		
6	App	proaches to Stock Market and Economic Activity	79	
	6.1	Introduction	79	
	6.2	The Intertemporal Approach	80	
	6.3	The Excess Volatility Theory	82	
	6.4	Heterogeneous Agents Models	84	
	6.5	The VAR Methodology	85	
	6.6	Regime Change Models	87	
	6.7	Conclusions	88	
7	Macro Factors and the Stock Market			
	7.1	Introduction	89	
	7.2	A Dynamic Macro Model	90	
	7.3	Empirical Results	93	
	7.4	Conclusions	95	
8	New Technology and the Stock Market			
	8.1	Introduction	97	
	8.2	Some Facts	97	
	8.3	The Model	99	
	8.4	Conclusions	102	
īV	Asse	et Pricing and Economic Activity		
9	Static Portfolio Theory: CAPM and Extensions			
	9.1	Introduction	105	
	9.2	Portfolio Theory and CAPM: Simple Form	105	
	9.3	Portfolio Theory and CAPM: Generalizations	110	
	9.4	Efficient Frontier for an Equity Portfolio	112	
	9.5	Conclusions	113	
10	Consumption Based Asset Pricing Models			
	10.1	Introduction	115	
	10.2	Present Value Approach	115	
	10.3	Asset Pricing with a Stochastic Discount Factor	116	
	10.4	Derivation of Some Euler Equations	119	
	10.5	Consumption, Risky Assets and the Euler Equation	122	
	10.6	Conclusions	126	

		Table of Contents	IX
11	Asse	et Pricing Models with Production	129
	11.1	Introduction	129
	11.2	Stylized Facts	131
	11.3	The Baseline RBC Model	131
	11.4	Asset Market Restrictions	133
	11.5	Conclusions	135
V		eign Exchange Market, Financial Instability and nomic Activity	
12	Bala	nnce Sheets and Financial Instability	139
	12.1	Introduction	139
	12.2	The Economy-Wide Balance Sheets	140
	12.3	Households' Holding of Financial Assets	141
	12.4	Shocks and Financial Market Reactions	143
	12.5	Conclusions	144
13	Excl	hange Rate Shocks, Financial Crisis and	
		put Loss	145
	13.1	Introduction	145
	13.2	Stylized Facts	146
	13.3	The Standard Exchange Rate Overshooting Model	147
	13.4	Exchange Rate Shocks and Balance Sheets	151
	13.5	Exchange Rate Shocks, Balance Sheets	
		and Economic Contraction	153
	13.6	, ,	
		and Economic Contractions	159
	13.7		
	400	and Economic Contractions	163
	13.8	Conclusions	167
14	Inte	rnational Portfolio and the Diversification of Risk.	169
	14.1	Introduction	169
	14.2	Risk from Exchange Rate Volatility	169
	14.3	Portfolio Choice and Diversification of Risk	172
	14.4	International Bond Portfolio	173
	14.5	International Equity Portfolio	175
	14.6	Efficient Frontier of an International Portfolio	177
	14.7	Conclusions	177

VI	Advanced Modeling of Asset Markets		
15	Agent Based and Evolutionary Modeling of Asset Markets		
	15.1 Introduction	181 181 184 187	
16	Behavioral Models of Dynamic Asset Pricing	189	
	 16.1 Introduction	189 189 195 198 202	
17	Dynamic Portfolio Choice Models: Theory		
	 17.1 Introduction	203 203 206 209 215 222	
18	Dynamic Portfolio Choice Models: Empirics	223	
	18.1 Introduction 18.2 The Dynamic Solution 18.3 Varying Risk Aversion Across Investors 18.4 Varying Time Horizon Across Investors 18.5 Dynamic Portfolio Choice with Labor Income 18.6 Some Conclusions	223 225 226 230 233 238	
VII	Asset Prices, Leveraging and Boom-Bust Cycles		
19	Some Empirics on Asset Prices, Leveraging and Credit Crisis		
	 19.1 Introduction	248	

20	Credit, Credit Derivatives, and Credit Default	255
	20.1 Introduction	255
	20.2 A Model of Credit and Asset Accumulation	256
	20.3 Credit Derivatives, Brownian Motions and the KMV Test	259
	20.4 Estimating the Distance-to-Default Using the KMV Test	263
	20.5 Conclusions	267
21	The Mechanism of Recent Boom-Bust Cycles: Credit, Complex Securities, and Asset Prices	271
	21.1 Introduction	271
	21.2 A Model of Asset Price Bubbles and Leveraging	273
	21.3 The Amplifying Effect of Complex Securities	279
	21.4 The Mechanism of Collapse: A Simple Presentation	282
	21.5 Conclusions	285
22	Financial Instability, Financial Culture and Financial Reform	289
VIII	Exercises and Appendices	
23	Exercises	299
24	Appendices	307
Bibli	ography	313
Subi	ect Index	331

Table of Contents

ΧI