

Contents

<i>Acknowledgments</i>	<i>page</i> xiii
1 Economic Crises, Economic Policy, and Economic Analysis	1
1.1 Macroeconomic Policy: Failed Expectations	1
1.2 Unanticipated Events Drive Economic Policy	3
1.2.1 Testing the Friedman-Schwartz Hypothesis	4
1.2.2 When the Test Failed, a “Forceful Policy Response” Followed	5
1.3 Balance Sheet Recessions: A Missing Perspective	6
1.3.1 Leverage Cuts Deep on the Downside	8
1.3.2 The Role of Housing in Economic Fluctuation Is Not New	10
1.3.3 When Household Balance Sheets Are Damaged, so Are Bank Balance Sheets	12
1.3.4 The Counterfactual Policy Paradox: Preventive Action or Blame for Error?	15
1.3.5 When Monetary Policy Is Ineffective, Fiscal Policy Is also Ineffective	15
1.3.6 Will New Models Save Us?	17
1.4 Experimental Markets and the Aggregate Economy	18
2 Goods and Services Markets versus Asset Markets	20
2.1 Two Types of Markets: The Good and the Sometimes Ugly	20
2.2 The Contrast between Markets for Nondurable Goods and for Long-Lived Durable Assets	22
2.3 Markets for Consumer Nondurables	24
2.3.1 The Experiment Procedures: Motivating Trade	24
2.3.2 Prices Emerge from Decentralized Actions Governed by Rules	25

2.3.3	Supply and Demand for Perishables: Invisible Guide to Best Social Outcomes	27
2.3.4	Two Early Experiments: Falsifying an “Explanation”	30
2.4	Asset Markets	33
2.4.1	Asset Markets: Unanticipated Bubbles on the Way to Equilibrium	34
2.4.2	Learning from the Bubble Generator	35
2.5	Modeling Bubbles: The Interaction between Fundamental and Momentum Components of Trading Behavior	41
2.5.1	More Money, Bigger Bubbles	42
2.5.2	It’s Money All the Way to the End	44
2.6	Summary: Markets, Panics, and Manias – When Are Crowds Wise and When Are They Not?	45
3	Asset Performance: Housing and the Great Recession	49
3.1	Expansion of the Real Estate Bubble and Onset of the Recession	50
3.1.1	Momentum Characteristics of the Developing Bubble	51
3.1.2	The Course of the Recession	53
3.1.3	Lingering Repercussions of the Bubble and Recession	55
3.2	Parallels in Behavior: Laboratory and Housing Market Asset Bubbles	56
3.2.1	Liquidity Influences the Magnitude of the Bubble and Its Subsequent Collapse	56
3.2.2	Trade Quantities Fall While Prices Continue to Rise or Flatten Out	57
3.2.3	Prices Turn and Collapse While Trade Quantity Continues to Decline	59
3.3	Mortgage Finance Supported the Bubble Until It Was Withdrawn	60
3.3.1	Self-Sustaining Expectations in the Housing, Mortgage, and Derivatives Markets	60
3.3.2	Money Mattered: The Flow of Mortgage Funds Grew Dramatically During the Bubble	62
3.3.3	Money from Abroad: Foreign Investment Inflated the Bubble	65
3.3.4	Housing Affordability Fell as Credit Pushed Up Prices	67
3.3.5	Low-Priced Homes Had a Bigger Bubble	69

3.3.6	Mortgage Leverage Was Extreme During the Bubble	70
3.3.7	Mortgage Delinquency Reversed the Flow of Mortgage Funds	71
3.3.8	Leverage Cuts Brutally on the Downside	71
3.4	Housing Equity, Negative Equity, and the Transmission of Borrowers' Losses	73
3.4.1	Households' Equity in the Housing Stock	73
3.4.2	Negative Equity Became Widespread After Prices Fell	75
3.4.3	Borrowers' Losses Were Transmitted to the Financial Sector	76
3.5	Housing and Key Components of GDP in the Great Recession: The Two Types of Markets Again	77
3.6	Summary: The Great Recession Has Unusual Persistence	80
4	The Great Depression	85
4.1	Interpretations of the Great Depression	85
4.1.1	Friedman and Schwartz versus Real Business Cycle Interpretations	86
4.1.2	Economic and Banking Conditions in 1930	87
4.1.3	Mortgage Leverage and a Housing Collapse Amplify Distress in a Downturn	89
4.1.4	Household Balance Sheet Stress and the Consumption Decline in 1930	90
4.2	Changes in Output by Sector	91
4.3	Residential Mortgage Debt Boom and Increasing Leverage	94
4.4	Housing-Sales and House-Price Declines, 1926–1933	98
4.4.1	Housing Sales Decline	98
4.4.2	House Price Movements, 1926–1933	100
4.5	Mortgage Bond Defaults, Mortgage Delinquency and Foreclosure, and Unemployment	103
4.5.1	Mortgage Bond Defaults	104
4.5.2	Mortgage Delinquency and Foreclosures	106
4.6	Urban Bank Stress from Real Estate	110
4.7	Summary: Channels of Contraction	113
4.7.1	Reduced Residential Construction	113
4.7.2	Damage to Household Balance Sheets	114
4.7.3	Reduction of Firms' Inventories, Production, and Fixed Investments	115
4.7.4	Feedback Effect on Households' Incomes	116
4.7.5	Damage to Banks' Balance Sheets	116

4.8	Conclusions	118
5	The Postwar Recessions	122
5.1	The Major Downturns	123
5.1.1	The 1973–1975 Recession	123
5.1.2	The 1980 and 1981–1982 Recessions: The Fed-Housing Economic Cycle Revealed	125
5.2	The Minor Recessions	128
5.2.1	The 1948–1949 Recession	128
5.2.2	The 1953–1954 Recession	130
5.2.3	The 1957–1958 Recession	132
5.2.4	The 1960–1961 Recession	133
5.2.5	The 1969–1970 Recession	134
5.2.6	The 1990–1991 Recession	136
5.2.7	The 2001 Recession: Finally, a Business Investment Recession	137
5.3	Summary of GDP Component Changes	140
5.4	Conclusions	143
6	What May Have Triggered or Sustained the Housing Bubble (1997–2006)?	146
6.1	What May Have Triggered the Housing Bubble (1997–2001)?	148
6.1.1	The Taxpayer Relief Act of 1997	148
6.1.2	Evaluating the Role of Public Housing Policy: Government-Sponsored Enterprises and the Community Reinvestment Act	149
6.2	What May Have Sustained and Continued the Housing Bubble (2002–2006)?	166
6.2.1	Unprecedented Monetary Ease (2001–2003) versus Foreign Investment	166
6.2.2	Derivatives	168
6.3	Sweeping Up the Broken Glass	169
6.4	Conclusions	170
7	The Bubble Bursts: Subprime Mortgages, Derivatives, and Banking Collapse	173
7.1	Financial “Innovations” in the Mortgage Market: Mortgage-Backed Securities and Credit Default Swaps	174
7.2	Can You Insure Against Business Risk of Loss?	177

7.3	Flaws at the Center of CDS Instruments	180
7.4	The Gathering Storm and the Collapse of the CDS, MBS, and Loan Origination Markets	182
7.5	Cry in the Wilderness: The Commodity Futures Trading Commission Raises Key Questions, Summarily Rejected, Subsequently Vindicated	190
7.6	Other Warnings as Catastrophe Neared	193
7.7	Complexity Surges: The Dodd-Frank Fix	194
7.8	Origins in Financial Market Legislation of the 1980s	196
7.9	Conclusions	199
8	Blindsided Experts	203
8.1	From Monitoring Events and Fighting Inflation to Surprise and Adaptation	204
8.1.1	Federal Reserve Adaptation I: Concerns Switch from Inflation to the Provision of Liquidity	207
8.1.2	Federal Reserve Adaptation II: An Implicit Acknowledgment That It Was a Solvency Crisis	210
8.2	Continuous Adaptation: Still More Fed Easing Was to Follow	216
8.3	Why Do Housing Market Crashes Bring Recession but Stock Market Crashes Do Not?	217
8.4	Pause for Reflection	221
9	What Might Be Done?	223
9.1	Incentives and Human Betterment	224
9.2	The Blame Game	226
9.3	“Regulation” as Incentive-Compatible Property Rights	227
9.3.1	Mortgages	230
9.3.2	Derivatives	232
9.3.3	Rating Agencies	233
9.3.4	Transparency	233
9.3.5	Proprietary Trading and Depository Institutions (the Volcker Rule)	233
9.3.6	The Fed Rewrites Its Rules	234
9.4	Bailouts: Banks but Not Homeowners?	235
9.5	Monetary Policy	240
9.6	Taxation Policy	242
9.6.1	Household Income Taxes	242
9.6.2	Business Income Taxes	245

9.7	Business Policy: Entry Cost by New Firms Should Be Low	245
10	Learning from Foreign Economic Crises: Consequences, Responses, and Policies	251
10.1	Introduction and Overview	251
10.2	Bankruptcy and Default as a Healthy Balance Sheet Repair and Reboot Process	254
10.3	Protecting Incumbent Investors from Losses: Recipe for Postponing Recovery?	256
10.4	Learning from Market Currency Depreciation in Three of Many Countries: Finland (1990–1993), Thailand (1994–2003), and Iceland (2007–2010)	258
10.4.1	Finland	260
10.4.2	Thailand	261
10.4.3	Iceland	263
10.5	Fiscal Consolidation versus Fiscal Stimulus and Deficit Spending	264
10.6	Conclusion	266
11	Summary: What Have We Learned?	268
11.1	Balance Sheet Crises and Housing: Definition and Occurrence	268
11.2	Housing Leads in Most Recessions	268
11.3	Two Types of Markets in Experiments and the Economy	269
11.4	Build-Up and Collapse: Overview of the Great Recession	271
11.5	Revisiting the 1920s and the Depression	272
11.6	Household Equity: Depression versus Great Recession	273
11.7	The Post–World War II Recessions	275
11.8	The Housing Bubble: Were There Triggers?	276
11.9	The Great Recession: Incentives, Mortgage-Backed Securities, and Derivatives	277
11.10	The Great Recession: Economic Policy Lags the Housing-Mortgage-Market Decline	278
11.11	International Crises-Management “Experiments” Supplement the Limited U.S. Experience: Sweden versus Japan; Finnish, Thai, and Icelandic Fiscal Discipline	280
11.12	Thinking about What Might Be Done	281

11.12.1 Thinking in Terms of Incentive-Compatible Property Rights, Not Politically Charged “Regulation”	281
11.12.2 Monetary Policy Needs to Account for Its Own Effect and that of Foreign Investment	283
11.12.3 Consumption and Growth-Focused Tax and Business Policies	284
11.13 Conclusions	286
<i>Index</i>	287