Global Financial Systems

Stability and Risk

Jon Danielsson



ALWAYS LEARNING PEARSON

Global Financial Systems Stability and Risk

Jon Danielsson

Under what circumstances have we achieved financial stability?

Which previous crises inform the current ones and in what way?

What are the common themes and lessons for policy, regulation and financial theory?

Global Financial Systems: Stability and Risk is an innovative textbook that explores the 'why' behind global financial stability, providing insightful discussions on the international financial system and the contemporary issues of today. Drawing on economic theory, finance, mathematical modelling and risk theory, this book presents a comprehensive, coherent and current economic analysis of the inherent instabilities of the financial system, and the design of optimal policy response.

Key features

- Up-to-date and thorough analysis of the 2007/08 financial crisis.
- Case studies and practical examples illustrate key arguments and apply the theory to the real world.
- End-of-chapter questions provoke discussion and critical thinking, and provide opportunities to test your understanding.
- Accompanied by instructor resources including PowerPoint slides, plus an author-hosted website featuring regular updates on current events in the global financial system and links to useful websites.

Jon Danielsson is Reader in Finance and member of the Financial Markets Group at the London School of Economics and Political Science, and co-director of the LSE's Financial Markets Group's Systemic Risk Centre.



Global Financial Systems

Table of Contents

4	$\overline{}$	_	٠,	$\overline{}$	v
ı		()	v	$\boldsymbol{\omega}$	r

Cover2

Contents

Authors acknowledgements

Publishers acknowledgements

Introduction

- 1: Systemic risk
 - 1.1 Case study: the 1914 crisis
 - 1.2 The concept of systemic risk
 - 1.3 Who creates systemic risk?
 - 1.4 Fundamental origins of systemic risk
 - 1.5 Summary

References

- 2: The Great Depression, 19291933
 - 2.1 Build-up to a depression
 - 2.2 The Great Depression
 - 2.3 Causes of the Great Depression
 - 2.4 Implications for future policy
 - 2.5 Summary

References

- 3: Endogenous risk
 - 3.1 Millennium Bridge
 - 3.2 Dual role of prices
 - 3.3 Risk



- 3.4 Dynamic trading strategies
- 3.5 Actual and perceived risk and bubbles
- 3.6 The LTCM crisis of 1998
- 3.7 Conclusion

References

4: Liquidity

- 4.1 The liquidity crisis of 1998
- 4.2 What is liquidity?
- 4.3 Liquidity models
- 4.4 Policy implications
- 4.5 Summary

References

5: The central bank

- 5.1 The origins of central banks
- 5.2 Banking supervision
- 5.3 Monetary policy
- 5.4 Financial stability
- 5.5 Bailing out governments
- 5.6 Challenges for central banking
- 5.7 Summary

Appendix: central bank interest rate

References

6: The Asian crisis of 1997 and the IMF

- 6.1 Building up to a crisis
- 6.2 The crisis in individual countries
- 6.3 Reasons for the crisis
- 6.4 Policy options for the crisis countries
- 6.5 Role of the IMF



- 6.6 Wider lessons
- 6.7 Summary

References

7: Banking crises

- 7.1 Money and early banking
- 7.2 Moral hazard
- 7.3 Costs of banking crises
- 7.4 Causes of banking crises
- 7.5 Bank and banking system failures
- 7.6 Summary

References

8: Bank runs and deposit insurance

- 8.1 Bank runs and crises
- 8.2 Modelling deposit insurance
- 8.3 Pros and cons of deposit insurance
- 8.4 Summary

References

9: Trading and speculation

- 9.1 Trading scandals and abuse
- 9.2 Trading and risk
- 9.3 Trading activities
- 9.4 Policy issues
- 9.5 Summary

Appendix: Basic terminology of trading

References

10: Credit markets

- 10.1 Market for credit
- 10.2 Credit rating agencies



- 10.3 Credit models
- 10.4 Margins, haircuts and mark-to-market
- 10.5 Securitisation
- 10.6 Summary

References

11: Currency markets

- 11.1 Fixed or floating
- 11.2 Foreign exchange interventions
- 11.3 Capital controls
- 11.4 Exchange rate regimes
- 11.5 Perils of overvaluation
- 11.6 Undervaluation and currency wars
- 11.7 Reserve currency
- 11.8 Summary

Appendix: Exchange rate regimes

References

12: Currency crisis models

- 12.1 First-generation models
- 12.2 The Argentinian crisis
- 12.3 Second-generation models
- 12.4 The European crisis, 19921993
- 12.5 Global games currency crisis model
- 12.6 Summary

References

13: Financial regulations

- 13.1 Banking regulations
- 13.2 Bank capital
- 13.3 International financial regulations: Basel



13.4 Summary

Appendix: Value-at-Risk

References

14: Bailouts

14.1 Successful and unsuccessful bailouts

14.2 The historical origins of Lending of last resort (LOLR)

14.3 What are bailouts?

14.4 Alternatives to bailouts

14.5 Bailouts in the crisis starting in 2007

14.6 Bailouts, moral hazard and politics

14.7 Model of asset bubbles

14.8 Summary

References

15: Dangerous financial instruments

15.1 Complexity kills

15.2 Derivatives

15.3 Credit default swaps

15.4 Collateralised debt obligations

15.5 Summary

Appendix A: Mechanics of CDSs

Appendix B: CDO calculations

References

16: Failures in risk management and regulations before the crisis

16.1 Regulatory failures

16.2 Capital and the crisis

16.3 Summary

References

17: The ongoing crisis: 20072009 phase



- 17.1 Build-up to a crisis
- 17.2 Hidden and ignored risk
- 17.3 The changing nature of banking
- 17.4 Crisis, 20072008
- 17.5 Was it a subprime crisis?
- 17.6 Policy response
- 17.7 Summary

References

- 18: Ongoing developments in financial regulation
 - 18.1 New and changed institutions
 - 18.2 Basel III
 - 18.3 Liquidity
 - 18.4 How much capital?
 - 18.5 Recovery and resolution
 - 18.6 What about too big to fail?
 - 18.7 Summary

References

- 19: Sovereign debt crises
 - 19.1 Newfoundland
 - 19.2 Sovereign debt
 - 19.3 Enforcement
 - 19.4 Background to the European sovereign debt crisis
 - 19.5 Summary

References

Glossary

Bibliography

Index

