

Contents

<i>List of figures</i>	xii
<i>List of tables</i>	xiv
<i>List of boxes</i>	xv
<i>List of problem sets</i>	xvii
<i>Preface</i>	xxi
1 Why study information economics?	1
2 How to use this book	5
2 A <i>The purpose of the book</i>	5
2 B <i>Ways of reading the book</i>	6
2 C <i>The structure of the book</i>	8
2 D <i>Using the book for teaching</i>	8
2 E <i>Solutions to problem sets and other supporting material</i>	9
PART I	
Information as an economic good	11
3 What is information?	13
3 A <i>Introduction</i>	13
3 B <i>Main ideas: The strangest good of all</i>	14
3 C <i>Theory: Describing, comparing and updating information</i>	17
3 D <i>Conclusions and further reading</i>	26
3 E <i>Problem sets: Medical and financial testing</i>	27
4 The value of information	31
4 A <i>Introduction</i>	31
4 B <i>Main ideas: The source(s) of information value</i>	32

viii Contents

- 4C *Theory: Knowledge is power* 37
- 4D *Application: The resolution of uncertainty* 50
- 4E *Application: The informational cost of mediocrity* 53
- 4F *Conclusions and further reading* 56
- 4G *Problem sets: Precious advice* 56

5 The optimal amount of information 61

- 5A *Introduction* 61
- 5B *Main ideas: Is it worth the cost?* 62
- 5C *Theory: Deciding at the margin* 63
- 5D *Application: The central bank's inflation forecast* 67
- 5E *Application: Search* 70
- 5F *Conclusions and further reading* 79
- 5G *Problem sets: Paying, searching, and waiting for information* 80

6 The production of information 83

- 6A *Introduction* 83
- 6B *Main Ideas: Too little research or too much?* 86
- 6C *Theory: The incentive to innovate* 88
- 6D *Application: Creative destruction* 97
- 6E *Application: Rating agencies* 105
- 6F *Application: Why are banks supervised?* 107
- 6G *Conclusions and further reading* 109
- 6H *Problem sets: Produce or copy—sell or give away?* 110

PART II

How the market aggregates information 115

7 From information to prices 117

- 7A *Introduction* 117
- 7B *Main ideas: Revealing information through prices* 118
- 7C *Theory: The market as an information processor* 121
- 7D *Application: Terrorism futures and prediction markets* 135
- 7E *Application: Should bank supervisors look at market prices?* 137
- 7F *Conclusions and further reading* 142
- 7G *Problem sets: Two heads know more than one* 143

8	Knowing facts or reading thoughts?	145
8A	<i>Introduction</i>	145
8B	<i>Main ideas: Fundamental versus strategic uncertainty</i>	146
8C	<i>Theory: Higher-order information</i>	148
8D	<i>Application: Keynes in the lab</i>	162
8E	<i>Application: Conformism and learning from debate</i>	165
8F	<i>Application: Betrayals and mediation</i>	167
8G	<i>Conclusions and further reading</i>	169
8H	<i>Problem sets: The art of outguessing others</i>	171
9	Coordination problems	173
9A	<i>Introduction</i>	173
9B	<i>Main ideas: Red or white?</i>	174
9C	<i>Theory: Coordination and multiple equilibria</i>	180
9D	<i>Application: Bank runs</i>	190
9E	<i>Conclusions and further reading</i>	200
9F	<i>Problem sets: “Should I stay or should I go?”</i>	201
10	Learning and cascades	203
10A	<i>Introduction</i>	203
10B	<i>Main ideas: “Always stand at the longest queue.”</i>	205
10C	<i>Theory: Observational learning</i>	207
10D	<i>Application: Learning in repeated games</i>	221
10E	<i>Conclusions and further reading</i>	224
10F	<i>Problem sets: A bath in the crowd</i>	224
11	The macroeconomics of information	227
11A	<i>Introduction</i>	227
11B	<i>Main ideas: Who acquires information and why?</i>	228
11C	<i>Theory: Information is imperfect and costly</i>	232
11D	<i>Application: Central bank transparency</i>	245
11E	<i>Conclusions and further reading</i>	248
11F	<i>Problem sets: As time goes by</i>	249

PART III	
Asymmetric information	253
12 The winner's curse	255
12 A Introduction	255
12 B Main ideas: How to lose by winning	257
12 C Theory: The importance of conditional expectations	260
12 D Application: The underpricing of IPOs	266
12 E Application: Prices and the winner's curse	269
12 F Conclusions and further reading	270
12 G Problem sets: Cursing winners	271
13 Information and selection	273
13 A Introduction	273
13 B Main ideas: When information prevents trading	274
13 C Theory: The market for lemons	277
13 D Application: The insurance destruction effect	286
13 E Application: Annuities	293
13 F Conclusions and further reading	300
13 G Problem sets: Buying the cat in a bag	302
14 Optimal contracts	305
14 A Introduction	305
14 B Main ideas: The economic lie detector	307
14 C Theory: Optimal contracts	312
14 D Application: Price-quality discrimination	322
14 E Application: Subordinated debt	328
14 F Conclusions and further reading	334
14 G Problem sets: Deal or no deal?	335
15 The revelation principle	341
15 A Introduction	341
15 B Main ideas: Many lies, one truth	342
15 C Theory: The revelation principle	343
15 D Application: The debt contract	349
15 E Application: Auctions	356
15 F Application: Why Enron should not have happened	360
15 G Conclusions and further reading	362
15 H Problem sets: Know your value	364

16	Creating incentives	367
16A	<i>Introduction</i>	367
16B	<i>Main ideas: Delegation and moral hazard</i>	369
16C	<i>Theory: Incentive contracts</i>	371
16D	<i>Application: Bank deposit insurance and risk taking</i>	381
16E	<i>Application: Credence goods</i>	389
16F	<i>Conclusions and further reading</i>	395
16G	<i>Problem sets: Getting things done</i>	397
PART IV		
	The economics of self-knowledge	401
17	Me, Myself, and I	403
17A	<i>Introduction</i>	403
17B	<i>Main ideas: Contracting with oneself</i>	404
17C	<i>Theory: Intertemporal choice and self-management</i>	411
17D	<i>Application: Soft paternalism</i>	425
17E	<i>Conclusions and further reading</i>	428
17F	<i>Problem sets: Tomorrow I will</i>	430
	<i>Notes</i>	433
	<i>Bibliography</i>	439
	<i>Index</i>	449