

Contents

Preface	xi
I BASIC INGREDIENTS	
1 Introduction	3
2 Cooperative Extension of the Bayesian Game	7
2.1 Formal Model	7
2.2 Examples	13
2.3 Two Approaches to Formulate Incomplete Information . . .	16
3 Measurability as Feasibility of Individual Actions	21
3.1 General Case	21
3.2 Private Information Case, Fully Pooled Information Case . .	22
4 Bayesian Incentive Compatibility as Feasibility of Execution of Contracts	25
4.1 Private Information Case	25
4.2 Mediator-Based Approach	37
4.3 Communication Plan as a Part of a Strategy	40
II SOLUTIONS, INFORMATION REVELATION	
5 Descriptive Solution Concepts	45
5.1 <i>Interim</i> Solution Concepts	45
5.2 <i>Ex Ante</i> Solution Concepts	52
5.3 Other Interactive Modes	54
5.4 Coexistence of Coalitions	54

6	Normative Solution Concepts	57
6.1	<i>Interim</i> Efficiency Concepts	57
6.2	Coexistence of Coalitions	62
7	Comparisons of Several Core Concepts	65
7.1	Fine Core and <i>Ex Post</i> Core	65
7.2	Private Measurability and Bayesian Incentive Compatibility	70
8	Existence	91
8.1	<i>Interim</i> Solutions	91
8.2	<i>Ex Ante</i> Solutions	93
8.A	Appendix to Chapter 8	98
9	Approaches to Information Revelation	109
9.1	By Contract Execution	110
9.2	By Contract Execution: A Profit-Center Game with Incomplete Information	118
9.3	By Choosing a Contract	135
9.4	Update of <i>Interim</i> Probabilities	138
9.5	By Credible Transmission of Information During the Contract Negotiation	148
9.A	Appendix to Chapter 9	149
 III PURE EXCHANGE ECONOMY		
10	Existence	167
10.1	<i>Interim</i> Solutions	168
10.2	<i>Ex Ante</i> Solutions	188
11	Large Economy	195
11.1	Large Bayesian Pure Exchange Economy	195
11.2	<i>Interim</i> Solutions	196
11.3	<i>Ex Ante</i> Solutions	201
12	Core Convergence/Equivalence Theorems	207
12.1	<i>Interim</i> Solutions	207
12.2	<i>Ex Ante</i> Solutions	212

IV ANOTHER VIEWPOINT

13 Self-Selection in Anonymous Environments	219
13.1 Mechanism Design	219
13.2 Pure Exchange Economy	223
Bibliography	227
Glossary	235
Index	239