

# Contents

<b>Apology</b>	<b>vii</b>
<b>Series Foreword</b>	<b>xvii</b>
<b>Reading Guide</b>	<b>xix</b>
<b>Acknowledgment</b>	<b>xxiv</b>
<b>Introduction: Setting the Scene</b>	<b>1</b>
0.1 Whither Away? . . . . .	1
0.2 The Art of Compromise . . . . .	1
0.2.1 Nonsense upon Stilts . . . . .	3
0.2.2 Social Contracts . . . . .	4
0.2.3 Reform . . . . .	6
0.2.4 The Original Position . . . . .	8
0.2.5 Bargaining . . . . .	13
0.3 Moral Philosophy . . . . .	15
0.3.1 Traditional Philosophical Categories . . . . .	16
0.3.2 Fin de Siècle . . . . .	17
0.4 Noncooperative Game Theory . . . . .	20
0.4.1 The Ultimatum Game . . . . .	21
0.4.2 Anomalies? . . . . .	29
0.5 Cooperative Game Theory . . . . .	38
0.5.1 Games in Coalitional Form . . . . .	38
0.6 Nash Program . . . . .	42
0.7 Implementation . . . . .	49
<b>1 Nuances of Negotiation</b>	<b>59</b>
1.1 Realistic Bargaining Models . . . . .	59
1.2 Bargaining Problems . . . . .	60

1.2.1	Payoff Regions . . . . .	60
1.2.2	Nash Bargaining Problems . . . . .	64
1.2.3	The Bargaining Set . . . . .	66
1.2.4	Dividing the Dollar . . . . .	69
1.2.5	Edgeworth Box . . . . .	73
1.3	Bargaining Solutions . . . . .	77
1.3.1	Nash Bargaining Solution . . . . .	77
1.3.2	Kalai-Smorodinsky Solution . . . . .	82
1.3.3	Bargaining with Interpersonal Comparison . . . . .	83
1.4	Characterizing Bargaining Solutions . . . . .	88
1.4.1	The Kalai-Smorodinsky Axioms . . . . .	89
1.4.2	The Nash Axioms . . . . .	94
1.4.3	Renegotiation Axioms . . . . .	96
1.5	Bargaining with Commitment . . . . .	100
1.5.1	Nash Demand Game . . . . .	100
1.5.2	Fixed and Variable Threats . . . . .	104
1.6	Trustless Transactions . . . . .	108
1.6.1	Repeated Games . . . . .	109
1.6.2	Transitional Arrangements . . . . .	112
1.7	Bargaining without Commitment . . . . .	120
1.7.1	The Alternating Offers Game . . . . .	122
1.7.2	How Realistic is Rubinstein's Model? . . . . .	130
1.8	Other Approaches to Bargaining . . . . .	135
1.8.1	The Coase Theorem . . . . .	136
1.8.2	Gauthier on Bargaining over a Social Contract . . . . .	139
<b>2</b>	<b>Evolution in Eden</b> . . . . .	<b>145</b>
2.1	The Good, the Right, and the Seemly . . . . .	145
2.2	Utilitarianism . . . . .	147
2.2.1	Summum Bonum . . . . .	150
2.2.2	Ipsedixists . . . . .	150
2.2.3	Ideal Observers . . . . .	152
2.2.4	Philosopher-King . . . . .	156
2.2.5	The Social Contract Approach . . . . .	159
2.2.6	Rule-Utilitarianism or Act-Utilitarianism? . . . . .	161
2.2.7	The Big Picture . . . . .	164
2.3	Fictitious Postulatum? . . . . .	167
2.3.1	Interpersonal Comparison of Utility . . . . .	168
2.4	Evolutionary Ethics . . . . .	178
2.5	Evolution and Justice . . . . .	183
2.5.1	Reciprocity . . . . .	186
2.5.2	Kinship . . . . .	187

2.5.3	Equilibrium Selection . . . . .	204
2.5.4	Empathy and Fairness . . . . .	212
2.5.5	The Long and the Short and the Medium . . . . .	226
2.6	Nonteleological Utilitarianism . . . . .	228
2.6.1	Commitment in Eden . . . . .	229
2.6.2	Interpersonal Comparison in the Medium Run . . . . .	242
2.6.3	Retelling the Rawlsian Story . . . . .	247
2.7	Morality as a Short-Run Phenomenon . . . . .	250
2.7.1	The Princess and the Pea . . . . .	251
2.7.2	How Justice Works . . . . .	253
2.8	Why Not Utilitarianism? . . . . .	258
<b>3</b>	<b>Rationalizing Reciprocity . . . . .</b>	<b>263</b>
3.1	Back-scratching . . . . .	263
3.2	Rights in a Theory of the Seemly . . . . .	273
3.2.1	Rights as Strategies? . . . . .	275
3.2.2	Rules for Sustaining an Equilibrium . . . . .	277
3.2.3	Moral Responsibility . . . . .	278
3.2.4	Free Will . . . . .	282
3.2.5	Nil Desperandum! . . . . .	292
3.3	Folk Theorem . . . . .	293
3.3.1	Memes . . . . .	294
3.3.2	Finite Automata . . . . .	295
3.3.3	Computing Payoffs . . . . .	297
3.3.4	Reciprocal Sharing . . . . .	299
3.3.5	Crime and Punishment . . . . .	305
3.3.6	Guardians Who Guard Each Other . . . . .	310
3.3.7	Tit for Tat? . . . . .	313
3.3.8	How Does Cooperation Evolve? . . . . .	319
3.4	Social Contracts in Big Societies . . . . .	328
3.4.1	Social Transfers . . . . .	328
3.4.2	Friendship and Coalitions . . . . .	331
3.4.3	Police Forces . . . . .	331
3.4.4	Punishing the Innocent . . . . .	333
3.4.5	Leadership and Authority . . . . .	335
3.5	The Role of the Emotions . . . . .	338
3.5.1	Sore Thumbs . . . . .	338
3.5.2	Tunnel Vision . . . . .	339
3.6	Due Process . . . . .	344
3.6.1	Anarchy to Statehood . . . . .	345
3.6.2	Natural Equilibrium . . . . .	347
3.7	Renegotiation . . . . .	348

3.7.1	Getting from Here to There . . . . .	349
3.7.2	Renegotiation in the Original Position . . . . .	352
3.7.3	Making the Punishment Fit the Crime . . . . .	354
3.7.4	Renegotiation-Proofness . . . . .	356
3.8	What about Moral Values? . . . . .	357
3.8.1	Confusing Tastes and Values . . . . .	358
3.8.2	Das Adam Smith Problem . . . . .	367
3.8.3	Postwelfarism . . . . .	369
3.8.4	What Moral Relativism Is Not . . . . .	371
<b>4</b>	<b>Yearning for Utopia</b> . . . . .	<b>375</b>
4.1	Introduction . . . . .	375
4.2	Envy . . . . .	376
4.3	Equity in Economics . . . . .	381
4.3.1	Envy-Freeness . . . . .	382
4.3.2	Welfarism . . . . .	391
4.4	Equity in Psychology . . . . .	396
4.5	Equity in Anthropology . . . . .	401
4.5.1	Sharing and Caring . . . . .	402
4.5.2	Enforcement in Foraging Societies . . . . .	405
4.5.3	Anarchy in Prehistory? . . . . .	410
4.5.4	Kinship in Small Groups . . . . .	413
4.6	The Game of Morals . . . . .	422
4.6.1	Fair Social Contracts . . . . .	422
4.6.2	Paradise Lost . . . . .	424
4.6.3	Modeling the Original Position . . . . .	425
4.6.4	When is Justice Dispensed? . . . . .	430
4.6.5	Rawls Vindicated! . . . . .	436
4.6.6	Interpersonal Comparison in the Medium Run . . . . .	439
4.6.7	Consensus and Context . . . . .	447
4.6.8	Morality in the Short Run . . . . .	449
4.6.9	Egalitarianism versus Utilitarianism . . . . .	450
4.6.10	Paradise Regained? . . . . .	453
4.7	Worthiness and Power . . . . .	454
4.7.1	Will to Power? . . . . .	455
4.7.2	Comparative Statics . . . . .	458
4.7.3	To Each According to His Need? . . . . .	460
4.7.4	Arbeit Macht Frei? . . . . .	464
4.7.5	From Each According to His Ability? . . . . .	466
4.7.6	The High and the Lowly . . . . .	468
4.7.7	Socialism versus Capitalism . . . . .	469
4.8	The Market and the Long Run . . . . .	471

4.8.1	The Walrasian Bargaining Solution . . . . .	476
4.8.2	Misrepresenting Personal Preferences . . . . .	483
4.8.3	The Concept of a Fair Price . . . . .	492
4.8.4	Time Corrupts All . . . . .	493
4.9	Unfinished Business . . . . .	495
4.9.1	Large Societies and Coalitions . . . . .	495
4.9.2	Incomplete Information and Mechanism Design . . .	496
4.9.3	A Changing Game of Life . . . . .	498
4.10	A Perfect Commonwealth? . . . . .	499
4.10.1	What is Whiggery? . . . . .	499
4.10.2	Where is Whiggery? . . . . .	503
4.11	Humean and Humane . . . . .	506
<b>Appendices</b>		<b>509</b>
<b>A Really Meaning It!</b>		<b>511</b>
A.1	Naturalism . . . . .	511
A.1.1	Causal Reversals . . . . .	512
A.2	Modeling Man . . . . .	513
A.2.1	Strength of Body . . . . .	516
A.2.2	Reason . . . . .	517
A.2.3	Passions . . . . .	519
A.2.4	Experience . . . . .	520
<b>B Harsanyi Scholarship</b>		<b>523</b>
B.1	Introduction . . . . .	523
B.2	Teleological Utilitarianism . . . . .	524
B.3	Nonteleological Utilitarianism . . . . .	529
<b>C Bargaining Theory</b>		<b>533</b>
C.1	Introduction . . . . .	533
C.2	Alternating Offers Game . . . . .	533
C.3	Preferences . . . . .	535
C.4	Stationary Subgame-Perfect Equilibria . . . . .	537
C.5	Nonstationary Equilibria . . . . .	539
C.6	Generalized Nash Bargaining Solutions . . . . .	542
C.7	Nash Program . . . . .	544
<b>Bibliography</b>		<b>546</b>
<b>Index</b>		<b>579</b>