	Preface	page xvii
1	Introduction	1
	Part I Origins of the state	
2	The reason for collective choice – allocative efficiency	9
	2.1 Public goods and prisoners' dilemmas	9
	2.2 Coordination games	14
	2.3 Public goods and chickens	16
	2.4* Voluntary provision of public goods with constant returns to scale	18
	2.5* Voluntary provision of public goods with varying supply technolog	ies 22
	2.6 Externalities	25
	2.7 The Coase theorem	27
	2.8 Coase and the core	30
	2.9 A generalization of the Coase theorem	32
	2.10 Does the Coase theorem hold without predefined property rights?	34
	2.11 Externalities with large numbers of individuals	35
	2.12 Externalities with large numbers of individuals – a second time	39
	2.13 Experimental results in the voluntary provision of public goods	40
3	The reason for collective choice – redistribution	44
	3.1 Redistribution as insurance	45
	3.2 Redistribution as a public good	47
	3.3 Redistribution to satisfy fairness norms	49
	3.4 Redistribution to improve allocative efficiency	51
	3.5 Redistribution as taking	53
	3.6 Income transfers in the United States	56
	3.7 Redistribution and the distribution of income	58
	3.8 Redistribution to special interests	61
	Part II Public choice in a direct democracy	
4	The choice of voting rule	67
•	4.1 The unanimity rule	67
	4.2 Criticisms of the unanimity rule	72
	4.3 The optimal majority	74
	4.4 A simple majority as the optimal majority	76
	···	, 0

## viii Contents

	5 Majo	rity rule – positive properties	
	5.1	Majority rule and redistribution	79
	5.2	Cycling	79
	5.3*	The median voter theorem – one-dimensional issues	84
	5.4	Majority rule and multidimensional issues	85
	5.5*	Proof of the median voter theorem – multidimensional case	87
	5.6	Majority rule equilibria when preferences are not defined in	92
		spatial terms	
	5.7*	Proof of extremal restriction – majority rule theorem	94
	5.8	Restrictions on preferences, on the nature and number of issues, and	95
		on the choice of voting rule that can induce equilibria	0.7
	5.8.	1 Preference homogeneity	97
	5.8.	2 Homogeneous preferences and qualified majority rules	97
	5.8.	The leadingship between numbers of issues and alternatives	99
		and the required majority	102
		Logrolling	103 104
	5.10*	Logrolling and cycling	104
		Testing for logrolling	108
	5.12	Agenda manipulation	112
	5.12	1 Agenda control in a spatial environment	112
	3.12	.2 Agenda control in a divide-the-cake game	113
	5.15	w ny so much stability?	114
	5.13	1 Issues are indeed of one dimension	115
	5.13	2 Voting one dimension at a time	116
	5.13	3 Logrolling equilibria	118
	5.13. 5.12	4 Empirical evidence of cycling	120
•	2.13.	5 Experimental evidence of cycling	123
6	Majorit	y rule – normative properties	128
	6.1	Condorcet's jury theorem	128
	6.2 N	May's theorem on majority rule	133
	6.3* F	Proof of May's theorem on majority rule	135
	_	he Rae-Taylor theorem on majority rule	136
		assumptions underlying the unanimity rule	137
	_	assumptions underlying the two rules contrasted	138
	671	The consequences of applying the rules to the "wrong" issues	140
	672	Deciding improvements in allocative efficiency via majority rule	140
	~	Deciding redistribution by unanimity onclusions	143
7			144
′	7.1 T	alternatives to majority rule	147
	7.1 T	he alternative voting procedures defined	147
		he procedures compared – Condorcet efficiency	148
	7.4 T	he procedures compared – utilitarian efficiency he Borda count	151
		Axiomatic properties	152
	7.4.2	The Bords sound and all "	152
	7.4.3	The Borda count and the "tyranny of the majority"	154
	$7.5  \mathbf{A}_1$	The Borda count and strategic manipulation opproval voting	155
	7.6 In	plications for electoral reform	156
		r	157

Contents	
nplicated alternatives to majority rule	
The demand-revealing process	
1.1 The mechanics of the process	
* * * * * * * * * * * * * * * * * * * *	

ix

8	Complicated alternatives to majority rule	159
	8.1 The demand-revealing process	
	8.1.1 The mechanics of the process	160
		160
	8.1.2 Vernon Smith's auction mechanism	168
	8.2 Point voting	169
	8.3* An explication of the Hylland-Zeckhauser point-voting procedure	170
	8.4 Voting by veto	174
	8.5 A comparison of the procedures	
^		179
9	Exit, voice, and disloyalty	182
	9.1 The theory of clubs	183
	9.2 Voting-with-the-feet	186
	9.3 Global optimality via voting-with-the-feet	
	9.4* Clubs and the core	189
		194
	9.5 Voting-with-the-feet: empirical evidence	199
	9.6 Voluntary association, allocational efficiency, and distributional	
	equity	202
	9.7 The theory of revolution	204

9

## 9.7 The theory of revolution

		204
	Part III Public choice in a representative democracy	
10		209
	10.1 The logic of federalism	209
	10.1.1 The assignment problem	209
	10.1.2 Federalism with geographic representation	212
	10.2 Why the size of government may be "too large" under federalism	213
	10.2.1 Logrolling	213
	10.2.2 Universalism	215
	10.3 Intergovernmental grants under federalism	215
	10.3.1 Intergovernmental grants to achieve Pareto optimality	216
	10.3.2 The empirical evidence on intergovernmental grants	221
	10.4 Why the size of government may be "too large" and "too small"	221
	under federalism	223
	10.5 The problem of centralization under federalism	227
11	Two-party competition – deterministic voting	230
	11.1 Outcomes under two-party democracy	231
	11.2 Two-party competition in a constrained policy space	236
	11.2.1 The uncovered set	236
	11.2.2 The uncovered set with high valence issues	240
	11.3 Relaxing the assumptions of the Downsian model	241
	11.3.1 Candidates have preferences over policies	241
	11.3.2 Candidates can enter and exit the contests	242
	11.4 Testing the median voter hypothesis	243
	11.5 Are local public expenditures public or private goods?	246
12	Two-party competition – probabilistic voting	249
	12.1 Instability with deterministic voting	249
	12.2 Equilibria under probabilistic voting	252
	12.3 Normative characteristics of the equilibria	253
	12.4 Equilibria with interest groups	255

be too large under rederansin	213
10.2.1 Logrolling	213
10.2.2 Universalism	215
10.3 Intergovernmental grants under federalism	215
10.3.1 Intergovernmental grants to achieve Pareto optimality	216
10.3.2 The empirical evidence on intergovernmental grants	221
10.4 Why the size of government may be "too large" and "too small"	
under federalism	223
10.5 The problem of centralization under federalism	227
Two-party competition – deterministic voting	230
11.1 Outcomes under two-party democracy	231
11.2 Two-party competition in a constrained policy space	236
11.2.1 The uncovered set	236
11.2.2 The uncovered set with high valence issues	240
11.3 Relaxing the assumptions of the Downsian model	241
11.3.1 Candidates have preferences over policies	241
11.3.2 Candidates can enter and exit the contests	242
11.4 Testing the median voter hypothesis	243
11.5 Are local public expenditures public or private goods?	246
Two-party competition – probabilistic voting	249
12.1 Instability with deterministic voting	249
12.2 Equilibria under probabilistic voting	252
12.3 Normative characteristics of the equilibria	253
12.4 Equilibria with interest groups	255
12.5 An application to taxation	257

## x Contents

12.5.1 The logic	
12.5.2 The evidence	257
12.6 Commentary	259
13 Multiparty systems	260
13.1 Two views of representation	264
13.2 Selecting a representation	264
13.2 Selecting a representative body of legislators	265
13.3 Proportional representation in practice 13.4 Electoral rules	266
13.4.1 The Hare Droop Immedial: 1374	266
13.4.1 The Hare, Droop, Imperiali, d'Hondt, and Sainte-Lagué formulas	
13.4.2 The single-transferable vote (STV)	267
13.4.3 Limited voting	269
13.4.4 Single-nontransferable-vote systems (SNTV)	270
13.5 Electoral rules and the number of parties	271
13.6 Electoral rules and the degree of proportionality	271
13.7 The goals of parties	276
13.7.1 Coalition theories with a one-dimensional issue space	278
13.7.2 Coalition theories with two- or more-dimensional issue spaces	280
13.7.2.1 The political heart	285
13.7.2.2 The dimension-by-dimension median	285
13.8 Cabinet stability	286
13.8.1 The duration of governments	290
13.8.2 The death of governments	290
13.8.3 Summary	292
13.9 Social stability	295
13.10 Strategic voting	295
13.10.1 Strategic voting under the plurality rule	296
13.10.2 Strategic voting in multiparty systems	296
13.11 Commentary	297
14 The paradox of voting	298
14.1 The rational voter hypothesis	303
14.1.1 Expected utility maximization	304
14.1.2 A taste for voting	304
14.1.3 Voting as a game of cat and mouse	306
14.1.4 The rational voter as minimax-regret strategist	306
14.2 The rational voter hypothesis: the evidence	307
14.3 The expressive voter hypothesis	308
14.4 The ethical voter hypothesis	320
14.5 Ethical preferences as selfish behavior	322
14.6 The selfish voter	325
14.7 Summary and implications	326
15 Rent seeking	329
15.1 The theory of rent seeking	333
15.1.1 The basic rent-seeking model with a fixed number of players	333
15.1.1.1 Diminishing or constant returns, $r \le 1$	335
15.1.1.2 Increasing returns with $1 < r \le 2$	336
15.1.1.3 Increasing returns with $1 < r \le 2$	336
15.1.1.3 Increasing returns with $r > 2$	337

Contents	xi

	15 1.2 TM - 1 - 2.2	
	15.1.2 The impact of free entry	337
	15.1.3 Rent seeking with sequential investments	338
	15.1.4 Relaxing the assumptions	340
	15.1.4.1 Risk-neutrality	340
	15.1.4.2 Rent seeking among groups	342
	15.1.4.3 Rent seeking when the probability of winning is	
	not defined logistically	342
	15.1.4.4 Designing rent-seeking contests	342
	15.2 Rent seeking through regulation	343
	15.3 Rent seeking and the political process	347
	15.4 Rent seeking through tariffs and quotas	348
	15.4.1 The economic effects of tariffs, quotas, and voluntary	
	export restraints	348
	15.4.2 Endogenous protection models	350
	15.4.3 Remaining puzzles	353
	15.5 Rent seeking in other governmental activities	354
	15.6 How large are the welfare losses from rent seeking?	355
16	Bureaucracy	359
	16.1 Uncertainty, information, and power	360
	16.2 The budget-maximizing bureaucrat	362
	16.2.1 Environment and incentives	362
	16.2.2 The model	363
	16.3 Extensions of the model	365
	16.3.1 Alternative institutional assumptions	365
	16.3.2 Bargaining between sponsor and bureau	368
	16.4 Alternative behavioral assumptions	368
	16.4.1 The slack-maximizing bureaucrat	368
	16.4.2 The risk-avoiding bureaucrat 16.5 Empirical tests	370
		371
	16.5.1 Power of the agenda setter	371
	16.5.2 Cost differences between publicly and privately provided services	
	16.6 The government as Leviathan	373
	16.6.1 Theory	380
	16.6.2 Empirical testing – government expenditures and taxes	380
	16.7 Conclusions	382
17		384
1 /	Legislatures and bureaucracies	386
	17.1 The Congressional-dominance model	386
	17.1.1 Congressional dominance through administrative structure	386
	17.1.2 Congressional dominance through administrative procedure 17.2 The impact of uncertainty and transaction costs	388
	17.2.1 Uncertainty and the locus of responsibility	388
	17.2.2 Uncertainty, transaction costs, and commitment	389
	17.3 Congress and the president	389
	17.3.1 The legislature controls the president	391
	17.3.2 Presidential control over the legislature	391 393
	17.3.3 The problem of deadlocks	393 395
	L or mannionin	393

	4 <b>=</b> =	
	17.4 Congress, the president, and the judiciary	399
	17.4.1 Adding the judiciary to the model	399
	17.4.2 The goals of the judiciary	399
	17.5 Legislative decision making in the European Union 17.6 Conclusions	401
10		405
18	<u>-</u> -	406
	18.1 The origins of dictatorship	407
	18.2 The goals of dictators	409
	18.2.1 The consumption of the dictator 18.2.2 Power	409
	18.2.3 Security	411
	18.3 The functioning and survival of dictatorships	411
	18.3.1 The utility-maximizing dictator	412
	18.3.2 Tin pots and totalitarians	412
	18.3.3 Selective strategies to survive	413
	18.3.4 The dictator's dilemma	414
	18.3.5 The limits of totalitarianism	416
	18.4 The rise and decline of dictatorships	417
	18.5 Dictatorship and economic performance	417 420
	18.5.1 The relative advantages of dictatorship and demography	420
	16.5.2 The relative economic performance of dictatorships	420
	and democracies	422
	18.5.2.1 A direct test of Wintrobe's model of dictatorship	424
	18.6 Conclusions	424
	Part IV Applications and testing	
19	Political compatition of the same and testing	
17	Political competition and macroeconomic performance	429
	19.1 Macroeconomic performance and political success	429
	19.1.1 Vote and popularity functions	429
	<ul><li>19.1.2 Whom do voters hold responsible?</li><li>19.2 Opportunistic politics</li></ul>	433
	19.2.1 With myopic voters	437
	19.2.2 With rational voters	438
	19.3 Partisan politics	439
	19.3.1 Partisan politics with retrospective voters	440
	19.3.2 Partisan politics with rational forward-looking voters	443
	19.4 The evidence	444
	19.4.1 Do politicians try to manipulate the macroeconomic	446
	chynolinent?	446
	19.4.2 Are there partisan biases?	446
	19.4.3 Which theories fit the data best?	447 451
	19.4.4 Additional evidence for the Alesina/Rosenthal model	455
	19.4.3 Discussion	456
	19.5 Voter behavior	459
	19.5.1 Myopic, retrospective, rational	459
	19.5.2 Sociotropic or egotropic 19.6 Politics and inflation	460
	Tomacs and milation	461

	Contents	xiii
	19.6.1 Hypotheses	461
	19.6.2 The facts	462
	19.6.3 Central bank independence	465
	19.7 Deficits	466
	19.7.1 The facts	466
	19.7.2 Hypotheses	466
	19.7.2.1 Fiscal illusion and Keynesian delusions	466
	19.7.2.2 Political business cycles	467
	19.7.2.3 Partisan effects	467
	19.7.2.4 Government paralysis	467
	19.7.2.5 Budgetary rules	468
	19.7.3 The evidence	468
	19.8 Reflections	469
20	Interest groups, campaign contributions, and lobbying	472
	20.1 The logic of collective action	473
	20.2 Models of interest group behavior in politics	475
	20.2.1 Informative campaigning in a Downsian model	476
	20.2.2 Persuasive campaigning in a Downsian model	477
	20.3 Empirical studies of the causes and consequences of	
	campaign contributions	481
	20.3.1 Votes for a candidate are a function of campaign expenditures	481
	20.3.2 Determinants of campaign contributions	486
	20.3.3 Determinants of representative voting behavior – campaign	
	contributions	489
	20.3.4 Determinants of representative voting behavior – ideology or	400
	pure survival 20.3.5 Evaluation	489
	20.4 Lobbying	493 496
	20.5 The welfare effects of interest group activities	490 497
21		
21	The size of government	501
	21.1 The facts	501
	21.2 Explanations for the size and growth of government	506
	21.2.1 The government as provider of public goods and eliminator of externalities	506
	21.2.1.1 "Taste variables"	506
		507
	21.2.1.2 Income	509
	21.2.1.3 The Baumol effect	510
	21.2.2 The government as redistributor of income and wealth	511
	21.2.2.1 The Meltzer and Richard model	512
	21.2.2.2 Additional redistribution—growth-of-government hypotheses	514
	21.2.2.3 Some logical/empirical difficulties with the redistribution—	
	growth-of-government hypothesis	515
	21.2.2.4 Direct empirical tests of the redistribution—government-size	
	hypothesis	516
	21.2.3 Interest groups and the growth of government	519
	21.2.4 Bureaucracy and the growth of government	523

## xiv Contents

	21.2.5 Fiscal illusion	
	21.2.6 Tax elasticity	527
	21.3 Conclusions	529
2	2 Government size and economic performance	530
	22.1 The welfare losses from taxation	535
	22.2 Government size and black market activity	536
	22.3 Government size and corruption	539
	22.4 Government size and economic productivity	544
	22.5 Government size and economic growth	545
	22.5.1 Methodological issues	548
	22.5.2 The evidence	548
		551
	22.6 Government activity and the economic decline of nations 22.6.1 The logic	554
	22.6.2 Empirical evidence	554
	22.7 Conclusions	556
		559
	Part V Normative public choice	
23		
	23.1 The Bergson-Samuelson social welfare function	563
	23.2 Axiomatic social welfare function	563
	23.2.1 Fleming's social welfare function	568
	23.2.2 Harsanyi's social welfare function	568
	23.2.3 Two criticisms of Harranyila and 10.	569
	23.2.3 Two criticisms of Harsanyi's social welfare function	571
	23.2.3.1 Should individual attitudes toward risk count?	571
	23.2.3.2 Can individuals agree on a value for W?	572
	23.2.4 Ng's social welfare function	575
	23.2.5 Nash's and other multiplicative social welfare functions	576
24	23.3 What form of social welfare function is best?	578
2 <del>4</del>	The impossibility of a social ordering	582
	24.1 Logic of the proof	583
	24.2 Relaxing the postulates	585
	24.2.1 Transitivity	586
	24.2.2 Unrestricted domain	589
	24.2.3 Independence of irrelevant alternatives	590
	24.3 Strategy-proof social welfare functions	592
	24.4 Implications for public choice	595
25	A just social contract	
	25.1 The social contract	597
	25.2 The two principles of justice	598
	25.3 Extensions of the theory to other political stages	599
	25.4 Citique of the Rawlsian social contract	602
	25.4.1 The social contract	603
	25.4.2 The two principles of justice	603
	25.4.3 Experimental evidence	607
	25.5 Two utilitarian defenses of the maximin principle	609
	25.5.1 Waxinin as a means to obtain compliance	609
	25.5.2 Waximin as a redistribution principle	609
	25.6 The social contract as a constitution	611
	·	612

Contents	X

26	The c	onstitution as a utilitarian contract	615
	26.1	The constitutional context	616
	26.2	The two-action case	617
	26.3	The constitutional contract	619
	26.	3.1 Optimal collective action with only identity uncertainty	620
	26.	3.2 Optimal collective action with identity and numbers uncertainty	622
	26.	3.3 Optimal collective action with identity, numbers, and	
		payoff uncertainty	624
	26.4	Symmetric and asymmetric bans and obligations	624
	26.5	Continuous actions with interdependent utilities	625
	26.6	Decision-making costs	627
	26.	6.1 Prisoners' dilemmas	628
	26.	6.2 Direct conflicts	631
	26.7	Rights and obligations	631
	26.8	Constitutions: contracts or conventions?	634
	26.	8.1 Constitutions as contracts	634
		8.2 Constitutions as conventions	636
		8.3 Discussion	637
		Conclusions regarding two-stage theories of social choice	639
	26.10	From the normative, two-stage theory of constitutions to	
		hypothesis testing	640
27	Liber	al rights and social choices	643
	27.1	The theorem	643
	27.2	Resolving the paradox	644
	27.	2.1 Rights over Pareto	644
	27.	2.2 Pareto trades of actions	646
		2.3 Pareto trades of rights	648
		Rights over social states versus rights over actions	650
		Liberal rights and obligations	651
	27.5	Constitutional rights and liberal rights	652
	Part	VI What have we learned?	
28	Has p	public choice contributed anything to the study of politics?	657
	28.1	· · ·	658
	28.2	The rational choice approach to modeling	659
		The prediction of cycling	662
	28.4	The predictions of spatial models	663
	28.5	Predicting voting and free-riding	666
	28.6	Can public choice contribute to the positive study of	
		political institutions?	668
	28.7	Has public choice contributed anything to the normative study	
		of political institutions?	670
	28.8	Conclusions	671
29	Alloc	ation, redistribution, and public choice	675
	Refer	ences	683
	-	e index	749
		ct index	763
	Subje	CI BIMCA	/03