Contents

Pr	eface		ix
PA	RT 1	COMPARATIVE METHODOLOGY	1
1	Con	nparative Methodology and Statistics in Political Science	3
	1.1	Introduction	3
	1.2	The comparative approach to political	
		and social science: theory and method	6
	1.3	Comparing data: selecting cases and variables	8
	1.4	Developing empirical-analytical comparative analysis	13
	1.5	How to use this book	15
	1.6	Endmatter	16
2	The	Comparative Approach: Theory and Method	18
	2.1	Introduction	18
	2.2	Comparative research and case selection	19
	2.3	The use of comparative analysis in political	
		science: relating politics, polity and policy to society	23
	2.4	Endmatter	28
3	Mea	ning and Use of the Comparative	
	Met	hod: Research Design	30
	3.1	Introduction	30
	3.2	The problem of variables, cases, and interpretations	32
		3.2.1 Context matters	35
		3.2.2 Logics of comparison	36
	3.3	The role of space and time	39
		3.3.1 Time and history	40
		3.3.2 Space and Cross-Sections	41
	3.4	Developing a research design	42
	3.5	Transforming concepts into units of measurement	48
	3.6	Conclusion	50
	3.7	Endmatter	51

PA	AKI	2 51.	ATISTICS IN POLITICAL SCIENCE	53		
4	Coı	icepts,	Cases, Data and Measurement	55		
	4.1	Data	and data collection in political science	56		
		4.1.1	Data obtained from official statistical agencies	56		
			Verbal and visual accounts, content analysis	58		
		4.1.3	Questionnaires and surveys	59		
	4.2	Samp	oling and the basics of statistical testing	60		
		4.2.1	Statistical inference from a random sample	60		
		4.2.2	Random samples and non-random samples	61		
	4.3	Oper	ationalization and measurement:			
		Linki	ing data with concepts and units	62		
		4.3.1	Handling missing data	65		
	4.4	Crite	ria to evaluate the quality of operationalization			
		and r	neasurements	66		
		4.4.1	Multiple indicators: the scalability (reliability) problem	69		
	4.5	Scala	bility and cluster analysis	70		
		4.5.1	Likert scales and Cronbach's alpha	74		
		4.5.2	Factor analysis	75		
		4.5.3	Principal axis factoring and confirmative factor analysis	78		
		4.5.4	Digression: an unknown number of dimensions	80		
		4.5.5	Explorative cluster analysis	82		
		4.5.6	Summary	85		
	4.6	Conc	lusion	86		
	4.7	Endmatter				
5	Exp	Explorative and Descriptive Statistics				
	5.1	The u	inivariate distribution of a nominal variable	89		
		5.1.1	Measures of central tendency for nominal			
			variables: the mode	90		
		5.1.2	Measures of dispersion for nominal variables:			
			entropy and the Herfindahl Index	91		
	5.2	The u	inivariate distribution of ordinal, interval and ratio variables	92		
		5.2.1	Measures of central tendency	93		
		5.2.2	Measures of dispersion	94		
		5.2.3	The shape of the entire distribution of a			
			variable with interval measurement	97		
	5.3	Relati	ionships between variables with			
			nal measurement levels	99		
			The chi-square measure of association in a cross-table	100		
	5.4		ivariate distribution of two ordinal,			
		interv	al or ratio variables	103		

			Contents	vii
		5.4.1	Exploring the bivariate distribution the scattergram	104
		5.4.2	Bivariate regression analysis	106
	5.5	The r	elation between an interval or ratio	
		varia	ble and a nominal variable	114
		5.5.1	An interval variable and a bivariate nominal variable:	
			the comparison of two means	114
		5.5.2	Analysis of variance: an interval variable by	
			a nominal variable with j values	115
	5.6	Popu	lations, samples and inferential statistics	119
		5.6.1	The urn model	120
		5.6.2	Unbiasedness, efficiency and robustness of an estimator	121
		5.6.3	The general procedure used in hypothesis testing	123
		5.6.4	Four common probability distributions of test statistics	124
		5.6.5	Degrees of freedom	127
		5.6.6	Sense and nonsense of statistical tests	128
	5.7	Sumn	nary	128
	5.8	Endn	natter	129
)	Mu	ltivaria	nte Analysis and Causal Inference	132
	6.1	Causa	ality and multivariate relations	133
	6.2	Overv	view of multivariate data analysis techniques	136
	6.3	The ca	ase-oriented approach	137
	6.4	Nomi	nal dependent and independent variables	141
		6.4.1	Cross-table elaboration	142
	6.5	Nomi	nal dependent variable, interval independent variables	145
		6.5.1	Discriminant analysis example: explaining	
			the type of government	146
	6.6	Interv	al dependent variable, nominal independent	
		variab	oles: analysis of variance	150
	6.7	Interv	al dependent and independent	
		variab	oles: regression analysis	152
		6.7.1	The multiple regression model	153
		6.7.2	Assumptions of the ordinary least squares estimation method	157
		6.7.3	Direct causes, intervening variables and antecedent variables	164
		6.7.4	Interactions in the multivariate regression model	164
		6.7.5	Time series analysis: the autocorrelation problem	166
		6.7.6	Pooled time series analysis: autocorrelation	
			and heteroscedasticity	174
		6.7.7	Reciprocal causal relations: linear structural	
			equation models	180
	6.8	Epilog	gue	180
	6.9	Endm	atter	181

PA	ART 3	B DOING POLITICAL RESEARCH	183	
In	trodu	action to Part III: Doing political research	183	
7	How problems arise			
,		Processes of electoral change	187 187	
	7.1	7.1.1 The problem of change	187	
			189	
		7.1.2 Measuring electoral change		
	7.0	7.1.3 Modelling change	193	
	1.2	Processes of party change	198	
		7.2.1 The role of parties	198	
		7.2.2 Parties and ideology scales	200	
		7.2.3 Parties and issues	206	
		7.2.4 Public opinion and party responsiveness	209	
		Conclusions	213	
	7.4	Endmatter	214	
8	Hov	w Decisions are Made	217	
	8.1	Introduction	217	
	8.2	Types of democracies	219	
	8.3	Party systems	225	
		Cabinet formation and duration	229	
	8.5	Interest intermediation	239	
	8.6	Federalism, centralism and institutional autonomy	243	
		Presidentialism	248	
		Conclusions	252	
		Endmatter	252	
9	Hov	v Problems are Solved	258	
		Introduction	258	
		Welfare-related outputs and performance	260	
		Actors and socio-economic problem-solving	263	
		Institutions and socio-economic problem-solving	270	
		Electoral cycles and macro-economic policy	276	
			279	
		Democratic performance	289	
		Parties and accountability		
		Conclusions	293	
	9.9	Endmatter	295	
Ap	pend	dix	299	
Bibliography			305	
Index				