

# Contents

Preface	viii
CHAPTER 1 INTRODUCTION	1
What are planning techniques?	1
Plans and policies	4
The role of quantitative methods	4
Arrangement of this book	5
CHAPTER 2 STAGES IN A RESEARCH PROJECT	7
Issues	7
Hypotheses	8
Aims	12
Measures or criteria for reasoning	13
Procedures	14
Selection of case studies	18
Data collection and analysis	19
Interpretation of data and reflection on the results	20

CHAPTER 3	A PLANNING PROCESS	21
	Criteria for a planning process	21
	Identifying problems, opportunities, goals and objectives	22
	Collecting information and forecasting	24
	Analysis of information	25
	Producing conclusions for action - plan and policy preparation	25
	Implementation	29
	Monitoring	29
	Review	29
	Conclusions	29
CHAPTER 4	TESTING A HYPOTHESIS USING CENSUS DATA	31
	Issues have many facets	31
	A hypothesis	33
	Testing a hypothesis	33
	Conclusions	37
CHAPTER 5	QUESTIONNAIRE DESIGN AND ANALYSIS	40
	A questionnaire survey on housing attitudes	40
	Some methods for analysing the results	45
	Issues in designing and administering the questionnaire	53
CHAPTER 6	FORECASTING	55
	What do planners need to forecast?	55
	Forecasting trends or the effects of policies?	56
	Forecasting activities separately	57
	Why are forecasts made?	57
	Methods of forecasting population	57
	Some issues in forecasting employment and future land uses	67
	The gravity model	72
CHAPTER 7	APPROACHES TO PLAN PREPARATION	78
	Problem solving	81
	Model settlements	86
	Methods of land analysis	89

CHAPTER 8	PLAN MAKING FOR AN INNER CITY DISTRICT: SMALL HEATH, BIRMINGHAM	95
	Issues and opportunities in Small Heath	97
	Goals and objectives	111
	Data analysis	113
	Forecasting and identification of areas of uncertainty	117
	Preparation of alternative plans and policies	119
	Conclusions	123
CHAPTER 9	EVALUATION OF ALTERNATIVE PLANS AND POLICIES	125
	Rules for choosing between projects	126
	Estimating costs and benefits at the time that they occur	127
	Discount rates	132
	Interpersonal comparisons of utility	134
	The evaluation of risk	135
	Conclusions on evaluation	137
CHAPTER 10	MONITORING AND REVIEW	138
	Situations for monitoring and review	138
	Methods of monitoring	142
	Some examples	143
	Conclusions	146
CHAPTER 11	CHANGING USES FOR QUANTITATIVE METHODS	147
	Bibliography	152
	Index	159