Contents

| Lis | t of Tables and Figures | page X1 |
|-----|--|---------|
| Pre | eface | XV |
| 1. | Introduction | 1 |
| | Overview | 1 |
| | Theory and Meaning | 2 |
| | A Theory of Spatial Maps | 4 |
| | The 1964 Civil Rights Act | 14 |
| | A Road Map to the Rest of This Book | 15 |
| 2. | The Geometry of Parliamentary Roll Call Voting | 18 |
| | Overview | 18 |
| | The Geometry in One Dimension | 19 |
| | The Geometry in More than One Dimension | 30 |
| | The Relationship to the Geometry of Probit and Logit | 37 |
| | Conclusion | 41 |
| | Appendix | 41 |
| 3. | The Optimal Classification Method | 46 |
| | Overview | 46 |
| | The One-Dimensional Maximum Classification Scaling | |
| | Problem – The Janice Algorithm | 49 |
| | The Multidimensional Maximum Classification | * |
| | Scaling Problem | 60 |
| | Overall OC Algorithm | 82 |
| | Conclusion | 85 |
| | Appendix | 86 |
| 4. | Probabilistic Spatial Models of Parliamentary Voting | 88 |
| | Overview | 88 |
| | The Deterministic Portion of the Utility Function | 89 |
| | The Stochastic Portion of the Utility Function | 97 |

| X | Contents |
|-----|----------|
| 2 % | COMMENT |

| Estimation of Probabilistic Spatial Voting Models Statistical Issues Conclusion | 101 113 126 |
|---|--|
| Practical Issues in Computing Spatial Models of | |
| Parliamentary Voting | 128 |
| Overview | 128 |
| Standardized Measures of Fit | 129 |
| How to Get Reasonable Starting Values for the Legislator | 120 |
| | 130 |
| | 141 |
| Computing Made Easy – Some Simple Tricks to Make | 155 |
| Estimation Tractable | 159 |
| Conclusion | 160 |
| Conducting Natural Experiments with Roll Calls | 162 |
| Overview | 162 |
| | 163 |
| Large-Scale Experiments Using DW-NOMINATE Estimating a Common Spatial Map for Two Different | 172 |
| Legislatures | 187 |
| Conclusion | 195 |
| Conclusion | 197 |
| Overview | 197 |
| The Scientific Status of Geometric Models of Choice | |
| and Judgment | 197 |
| Unsolved Problems | 202 |
| Conclusion | 209 |
| erences | 211 |
| Index | |
| | Statistical Issues Conclusion Practical Issues in Computing Spatial Models of Parliamentary Voting Overview Standardized Measures of Fit How to Get Reasonable Starting Values for the Legislator Ideal Points How Many Dimensions Should I Estimate? The Problem of Constraints Computing Made Easy – Some Simple Tricks to Make Estimation Tractable Conclusion Conducting Natural Experiments with Roll Calls Overview Multiple-Individuals Experiments Large-Scale Experiments Using DW-NOMINATE Estimating a Common Spatial Map for Two Different Legislatures Conclusion Conclusion Conclusion Overview The Scientific Status of Geometric Models of Choice and Judgment Unsolved Problems Conclusion |