

Contents

How to Use This Book, *xv*

- 1 Nature and Knowing: Theory and Ecology, 3
- 2 The Forest Environment, 29
- 3 The Tree in the Forest: The Response of Populations of Trees to the Environment, 64
- 4 Implications of the Model for the Dynamics of Forest, 101
- 5 Testing and Comparing the Model with the Real World, 138
- 6 Sensitivity of the Model to Errors in Observations and in Concepts, 158
- 7 Use of the Model for Global Environmental Problems, 177
- 8 Use of the Model in Natural Resource Management, 203
- 9 General Implications of the Model, 228

- APPENDIX I Some Additional Mathematical Notes, 245
- APPENDIX II Equations, Variables, and Constants, 249
- APPENDIX III Additional Information on the Calculation of Environmental Conditions, 257
- APPENDIX IV Initial Stand Used in Tables 6.1 and 6.2, 262
- APPENDIX V Field Measurements Required to Provide Initial Conditions for the JABOWA-II Forest Model, 264
- APPENDIX VI Publications That Cite the JABOWA Model or One of Its Descendants, 266

Glossary, 275

References, 279

Author Index, 299

Subject Index, 302