Contents

Preface ix

1. Introduction 3

2. The Isocline Approach to Resource Competition 18

3. Mechanisms of Competition for Nutrients and Light 52

4. Allocation Patterns and Life Histories 98

5. Vegetation Patterns on Productivity and Loss Rate Gradients 136

6. The Dynamics of Plant Competition 184

7. Succession 213

8. Secondary Succession on a Minnesota Sandplain 240

9. Questions and Conclusions 301

Appendix: Mathematics of the Model ALLOCATE 327

References 335

Author Index 353

Subject Index 356