

Contents

|                                                                                                  |                |
|--------------------------------------------------------------------------------------------------|----------------|
| <i>Preface</i>                                                                                   | <i>page ix</i> |
| <i>Permissions</i>                                                                               | <i>xiii</i>    |
| <b>1 Four examples and a metaphor</b>                                                            | <b>1</b>       |
| <b>2 Topics from ordinary and partial differential equations</b>                                 | <b>20</b>      |
| <b>3 Probability and some statistics</b>                                                         | <b>80</b>      |
| <b>4 The evolutionary ecology of parasitoids</b>                                                 | <b>133</b>     |
| <b>5 The population biology of disease</b>                                                       | <b>168</b>     |
| <b>6 An introduction to some of the problems of sustainable fisheries</b>                        | <b>210</b>     |
| <b>7 The basics of stochastic population dynamics</b>                                            | <b>248</b>     |
| <b>8 Applications of stochastic population dynamics to ecology, evolution, and biodemography</b> | <b>285</b>     |
| <i>References</i>                                                                                | <i>323</i>     |
| <i>Index</i>                                                                                     | <i>369</i>     |