

Contents

| | |
|--|-----|
| 1 The Item Characteristic Curve | 1 |
| 2 Item Characteristic Curve Models | 17 |
| 3 Estimating Item Parameters | 35 |
| 4 The Test Characteristic Curve | 55 |
| 5 Estimating an Examinee's Ability | 69 |
| 6 The Information Function | 89 |
| 7 Test Calibration | 105 |
| 8 Specifying the Characteristics of a Test | 127 |
| A R Introduction | 137 |
| B Estimating Item Parameters Under the Two-Parameter Model with Logistic Regression | 165 |
| C Putting the Three Tests on a Common Ability Scale: Test Equating ... | 167 |
| References | 171 |
| Index | 173 |

This book is designed to introduce you to the concepts and methods of item response theory. A final section of each chapter, called "Things to Notice," lists some of the characteristics of the content that you should have noticed and some of the conclusions that you should have reached. If you do not understand the logic underlying something in this section, you can return to the computer session and try new exercises and explorations until clarity is reached.