

Contents

I. MEASUREMENT IN PSYCHOLOGY AND EDUCATION	1
Chapter 1. The Nature of Psychological Measurement	3
Why Measure Psychological Characteristics?	3
How Are Psychological Characteristics Measured?	7
What Is Measured?	9
Measurement	11
Attitudes toward Testing	15
Summary	15
Chapter 2. Test Development: An Overview	17
Characteristics of a Good Measuring Instrument	17
The Test Purpose	21
Constructing a Test: The Basic Steps	24
Examples of Test Development	33
Summary	36
Chapter 3. Some Basic Statistics	38
Raw Scores	38
Describing Score Distributions	39
Transformed Scores	46
Correlation	48
Summary	52
II. CONSISTENCY AND VALIDITY	55
Chapter 4. Consistency, Validity, and Measurement Errors	57
Sources of Variance in Test Scores	57
Consistency	64
Validity	67
The Relationship between Reliability and Validity	70
Summary	71
Chapter 5. Consistency	74
Types of Reliability Estimates	74
Internal Consistency	80
Interpretation of Reliability Coefficients	85
Some Special Situations	92
Summary	96

Chapter 6. Criterion-Related Validity	98
The Validation Process	98
Validity Coefficients	103
Decision-Making Accuracy	107
Other Validation Methods	113
Multiple Predictors	115
Interpreting Criterion-Related Validity Data	121
Summary	129
Chapter 7. Content and Construct Validity	132
Content Validity	132
Construct Validity	138
A Review and Integration	147
Summary	149
III. INTERPRETING TEST SCORES	151
Chapter 8. Norm-Referenced Scores	152
Types of Test Scores	152
Normative Data	154
Types of Norm-Referenced Scores	158
Methods of Presenting Norm-Referenced Scores	171
Summary	177
Chapter 9. Content- and Outcome-Referenced Scores	180
Content-Referenced Scores	181
Outcome-Referenced Scores	187
Interpretation of Test Scores	195
Summary	201
IV. MAXIMAL PERFORMANCE TESTS	205
Chapter 10. Measures of Maximal Performance	207
Aptitude, Achievement, and Ability	208
Achievement Tests	210
Aptitude and Ability Tests	214
Item Analysis	217
Bias in Maximal Performance Tests	224
Summary	229
Chapter 11. Classroom Achievement Tests	232
Planning a Classroom Test	232
Varieties of Test Items	238
Administering, Scoring, and Analyzing the Test	248
Testing and Instruction	254
Summary	256
Chapter 12. Standardized Achievement Tests	259
Constructing a Standardized Achievement Test	259
Types of Standardized Achievement Tests	265

Uses of Standardized Achievement Tests	278
Some Questions about Standardized Achievement Tests	285
Summary	289
Chapter 13. Measures of General Mental Ability	292
Intelligence Defined	292
Individual Intelligence Tests	296
Other Approaches to the Assessment of Mental Ability	305
Academic Ability Tests	310
Issues in Mental Ability Testing	321
Summary	325
Chapter 14. Aptitude and Ability Tests	328
Multiaptitude Test Batteries	328
Measures of Specific Aptitudes and Abilities	337
A Review of Maximal Performance Tests	349
Summary	353
V. TYPICAL PERFORMANCE TESTS	357
Chapter 15. Measures of Typical Performance	359
Types of Typical Performance Measures	359
Problems in Typical Performance Measurement: Conceptual	364
Problems in Typical Performance Measurement: Psychometric	371
Summary	377
Chapter 16. Self-Report Inventories	380
Scale Construction Methods	380
Vocational Interest Inventories	384
Personality Inventories	399
Dissimulation	410
An Evaluation of Self-Report Inventories	413
Summary	416
Chapter 17. Other Methods for Personality Assessment	418
Projective Techniques	418
Situational Methods	425
Observations and Ratings	429
A Miscellany of Other Methods	435
A Review and Evaluation of Typical Performance Measures	439
Summary	445
VI. EVALUATING EDUCATIONAL AND PSYCHOLOGICAL TESTS	447
Chapter 18. Selecting and Evaluating Tests	449
Selecting Tests	449
Evaluating Tests	457
Summary	463

Chapter 19. Problems, Issues, and Trends	464
A Recapitulation	464
Problems and Issues in Testing	466
Some Emerging Trends	477
A Concluding Comment	478
Appendix A. Areas of the Normal Curve	480
Appendix B. Statistical Symbols	484
Glossary	485
Bibliography	499