

Psychological Testing



7th Edition

Contents

Preface 11

PART ONE

FUNCTIONS AND ORIGINS OF PSYCHOLOGICAL TESTING

1 Nature and Use of Psychological Tests 16

- Uses and varieties of Psychological Tests 16
- What is a Psychological Tests? 18
- Why Control the Use of Psychological Tests? 24
- Test Administration 27
- Examiner and Situational Variables 31
- A View from the Test-Taker's Perspective 34
- Effects of Training on Test Performance 37
- Sources of Information about Tests 41

2 Historical Antecedents of Modern Testing 46

- Early Interest in Classification and Training and Mentally Retarded Persons 47
- The First Experimental Psychological 48
- Contributions of Francis Galton 49
- Cattell and the Early "Mental Tests" 50
- Binet and the Rise of Intelligence Tests 51
- Group Testing 52
- Aptitude Testing 53
- Standardized Achievement Tests 56
- Assessment of Personality 58

PART TWO

TECHNICAL AND METHODOLOGICAL PRINCIPLES

3 Norms and the Meaning of Test Scores 62

- Statistical Concepts 63
- Development Norms 68
- Within-Group Norms 72
- Relativity of Norms 80
- Computers and the Interpretation of Test Scores 88
- Domain-Referenced Test Interpretation 90
- Minimum Qualifications and Cutoff Scores 94

4 Reliability 99

- The Correlation Coefficient 99
- Types of Reliability 105
- Reliability of Speeded Tests 116
- Dependence of Reliability Coefficients on the Sample Tested 119
- Standard Error of Measurement 121
- Reliability Applied to Mastery Testing and Cutoff Scores 126

5 Validity: Basic Concepts 127

- Evolving Concepts of Test Validity 128
- Content-Description Procedures 128
- Criterion-Prediction Procedures 132
- Construct-Identification Procedures 140
- Overview and Integration 150

6 Validity: Measurement and Interpretation 154

- Validity Coefficient and Error of Estimate 155
- Test Validity and Decision Theory 158
- Combining Information from Different Tests 170
- Use of Tests for Classification Decisions 174
- Statistical Analyses of Test Bias 178

7 Item Analysis 186

- Item Difficulty 187
- Item Discrimination 193
- Item Response Theory 201
- Item Analysis of Speeded Tests 207
- Cross-Validation 208
- Differential Item Functioning 210
- Explorations in Item Development 214

PART THREE ABILITY TESTING

8 Individual Tests 218

- Stanford-Binet Intelligence Scale 219
- The Wechsler Scales 228
- The Kaufman Scales 236
- Differential Ability Scales 240
- Das-Naglieri Cognitive Assessment System 247

9 Tests for Special Populations 248

- Infant and Preschool Testing 249
- Comprehensive Assessment of Mentally Retarded Persons 261
- Testing Persons with Physical Disabilities 266
- Multicultural Testing 273

10 Group Testing 285

- Group Tests versus Individual Tests 286
- Adaptive Testing and Computer-Based Administration 288
- Multilevel Batteries 292
- Measuring Multiple Aptitudes 301

11 Nature of Intelligence 308

- Meaning of an IQ 309
- Heritability and Modifiability 311
- Motivation and Intelligence 314
- Factor Analysis of Intelligence 317
- Theories of Trait Organization 323
- Nature and Development of Traits 332

12 Psychological Issues in Ability Testing 337

- Longitudinal Studies of Children's Intelligence 337
- Intelligence of Early Childhood 341
- Problems in the Testing of Adult Intelligence 345
- Population Changes in Intelligence Test Performance 351
- Cultural Diversity 354

P A R T F O U R

PERSONALITY TESTING

13 Self-Report Personality Inventories 362

- Content-Related Procedures 363
- Empirical Criterion Keying 364
- Factor Analysis in Test Development 376
- Personality Theory in Test Development 381
- Test-Taking Attitudes and Response Biases 388
- Traits, States, Persons, and Situations 393
- Current Status of Personality Inventories 399

14 Measuring Interests and Attitudes 400

- Interest Inventories: Current Setting 401
- The Strong Interest Inventory (SII) 403
- Interest Inventories: Overview and Some Highlights 410

Some Significant Trends	416
Opinion Surveys and Attitude Scales	418
Locus of Control	422

15 Projective Techniques 424

Nature of Projective Techniques	425
Inkblot Techniques	425
Pictorial Techniques	433
Verbal Techniques	439
Autobiographical Memories	441
Performance Techniques	443
Evaluation of Projective Techniques	446

16 Other Assessment Techniques 457

Measures of Styles and Types	457
Situation Tests	464
Self-Concepts and Personal Constructs	468
Observer Reports	477
Biodata	483

PART FIVE

APPLICATIONS OF TESTING

17 Major Contexts of Current Test Use 488

Educational Testing	488
Occupational Testing	504
Test Use in Clinical and Counseling Psychology	523

18 Ethical and Social Considerations in Testing 547

Ethical Issues in Psychological Testing and Assessment	549
User Qualifications and Professional Competence	550
Responsibilities of Test Publishers	552
Protection of Privacy	554
Confidentiality	556
Communicating Test Results	557
Testing Diverse Populations	558

APPENDIX

A. Alphabetical Listing of Tests and Other Assessment Tools 565

B. Addresses of Test Publishers, Distributors, and Test-Related Organizations 569

Acknowledgements 575

Name Index 578

Subject Index 602