Contents

SECTION ONE Introduction

Introduction 3 Psychology 3 Industrial/Organizational Psychology 4 Fields of I/O Psychology 7 Licensing and Certification of Psychologists 10 The History of I/O Psychology 11 The Early Years (1900–1916) 11 World War I (1917–1918) 15 Between the Wars (1919–1940) 16 World War II (1941–1945) 19 Toward Specialization (1946–1963) 20 Governmental Intervention (1964–Present) 21 Scope of the Book 22 Major Chapter Objectives in Review 24

2 Research Methods in I/O Psychology 25

The Empirical Research Process 26
Statement of the Problem 27
Design of the Research Study 28
Laboratory Experiment 29
Field Experiment 30
Field Study 32
Sample Survey 33
Measurement of Variables 36
Levels of Measurement 38

Analysis of Data 39
Distributions and Their Shape 40
Measures of Central Tendency 41
Measures of Variability 44
The Concept of Correlation 45
Conclusions from Research 50
Ethical Problems in Research 52
Research in Industry 54
Future Research in I/O Psychology 56
Major Chapter Objectives in Review 57
CASE STUDY—How Should I Study This? 57

SECTION TWO Personnel Psychology

Concluding Comments

3 Criteria 63

Disagreement Among People in Making Evaluations Conceptual Versus Actual Criteria Criterion Deficiency, Relevance, and Contamination Criterion Development 68 Job Analysis 70 Methods of lob Analysis 70 Job-Oriented and Worker-Oriented Procedures 73 **Evaluating Job-Analysis Methods Job Evaluation** 78 Methods of Job Evaluation 79 Research on lob Evaluation 80 Standards for Criteria Types of Criteria 83 Hard Criteria 84 Soft Criteria 87 Relationship Among Job-Performance Criteria Composite Versus Multiple Criteria Composite Criterion Multiple Criteria 91 Resolution of the Controversy 91

92

Major Chapter Objectives in Review 92 CASE STUDY—Who Gets the Scholarship? 93

4 Predictors 95

Assessing the Quality of Predictors 96

Reliability 96

Validity 97

Criterion Reliability and Validity 101

Psychological Assessment and the Law 102

Psychological Tests and Inventories 105

Types of Tests 105

Ethical Standards in Testing 107

Sources of Information About Testing 108

Test Content 109

Intelligence Tests 109

Mechanical Aptitude Tests 111

Ability Tests 113

Personality and Interest Inventories 114

Multiple-Aptitude Test Batteries 116

Computerized Adaptive Testing 116

Testing in Retrospect 117

Interviews 117

Format of the Selection Interview 118

Evaluation of the Interview 119

Factors Influencing Interview Outcomes 121

Work Samples and Situational Exercises 122

Work Samples 122

Situational Exercises 124

Biographical Information 124

Peer Assessment 128

Letters of Recommendation 128

New and Controversial Methods 130

Overview and Evaluation of Predictors 133

Summary 136

Major Chapter Objectives in Review 137

CASE STUDY—How Do We Hire Police Officers? 139

5 Personnel Decisions 142

Recruitment 143

Selection 147

Regression Analysis 148

Multiple Predictors 150

Multiple Regression Analysis 153

Cross-Validation 154

Development of Test Batteries 156

Assessing the Utility of a Predictor 157

Selection Decisions 163

Expectancy Charts 166

Classic Selection Model 167

Concurrent Versus Predictive Validity 169

Selection Strategies 170

Multiple Regression 171

Multiple Cutoff 172

Multiple Hurdle 173

Profile Matching 175

Validity Generalization 178

Test Utility and Organizational Efficiency 180

Placement and Classification 181

Major Chapter Objectives in Review 183

CASE STUDY—Whom Should I Hire? 184

6 Personnel Training 187

Training and Learning 188

Training Defined 189

Relationship to Organizational and Individual Goals 189

Stating Training Objectives in Behavioral Terms 191

Deterrents to Effective Training 192

The Design of Personnel Training 193

Assessing Training Needs 194

Organization Analysis 194

Operations Analysis 197

Person Analysis 199

Methods and Techniques of Training 201

On-Site Training Methods 202

Off-Site Training Methods 204
Overview of Training Methods 214
Evaluation of Training Programs 216
Criteria 217
Research Designs 221
Equal Employment Opportunity and Training 224
Summary 225
Major Chapter Objectives in Review 225
CASE STUDY—What Do I Do Now? 225

7 Performance Appraisal 227

Implementing a Performance Appraisal Program 228 Using the Results of Performance Appraisal 229 Performance Appraisal and the Law 232 Sources of Performance-Appraisal Information Objective Production Data 234 Personnel Data 235 Judgmental Data 236 Rater Training 250 Evaluation of Poor Performance 251 Self and Peer Appraisals Self-Assessments 253 Peer Assessments 254 Assessment Centers 255 Feedback of Appraisal Information to Employees 261 Concluding Comments 263 Major Chapter Objectives in Review 265 CASE STUDY—Who Shall Survive? 265

SECTION THREE Organizational Psychology

8 Organizations and Their Influence on Behavior 271

Organizational Theory 271
Three Theories of Organization 272
Classical Theory 272
Neo-Classical Theory 275

9

Pay 325

Modern Organization Theory Components of Social Systems 278 Roles 278 Norms 280 Power 282 Culture 283 Summary of Social System Components 286 Person-Environment (P-E) Congruence 286 Individual Responses to Person-Environment Interactions Dysfunctional P-E Responses 288 Functional P-E Responses 295 Overview of Individual Responses to Person-Environment Interactions 299 Major Chapter Objectives in Review 300 CASE STUDY—Should Sex Make a Difference? 300 **Job Satisfaction** 302 The Concept of Job Satisfaction 303 Theories of Job Satisfaction 306 Intrapersonal-Comparison Processes 306 Interpersonal-Comparison Processes 307 Opponent-Process Theory 308 Two-Factor Theory 309 Review of the Four Satisfaction Theories 311 Measurement of Job Satisfaction 313 Job Descriptive Index 313 Minnesota Satisfaction Questionnaire 315 Faces Scale 317 Relationship Between Job Satisfaction and Personal Variables 317 Age 318 Race 319 Sex 320 Review of Personal Correlates of Job Satisfaction 321 Relationship Between Job Satisfaction and Employment Conditions Status 323 Unions 324

Employee-Owned Companies 326

Review of Employment-Condition Correlates of Job Satisfaction 327 Relationships Between Job Satisfaction and Job Behavior 327

Absenteeism 328

Turnover 330

Performance 331

Review of Job Satisfaction-Job Behavior Relationships 333

Relationship Between Job Satisfaction and Life Satisfaction 334

Review of Job Satisfaction-Life Satisfaction Relationship 337

Concluding Comments 337

Major Chapter Objectives in Review 338

CASE STUDY—Do You Like Your Job? 339

10 Work Motivation 341

Ability, Performance, Situational Constraints, and Motivation 341 Work Motivation 342

Two Perspectives of Motivation 342

Motivation Theories 345

Need-Hierarchy Theory 345

ERG Theory 349

Equity Theory 351

Expectancy Theory 356

Reinforcement Theory 363

Goal-Setting Theory 367

Intrinsic Motivation 370

Overview and Synthesis of Work Motivation Theories 373

Major Chapter Objectives in Review 376

CASE STUDY—What to Do with Harry? 376

11 Leadership 379

Major Substantive Topics of Interest in Leadership Research 380

Positional Power 380

The Leader 381

The Led 381

Influence Process 382

The Situation 382

Leader Emergence Versus Leader Effectiveness 383 Overview 383 Established Theories of Leadership 384 Trait Theory 385 Behavior Theory 386 Fiedler's Contingency Theory 390 Path-Goal Theory 395 Mutual-Influence Theory 399 Vroom-Yetton Contingency Theory 400 New Theories of Leadership 405 Cognitive-Resource Utilization Theory 405 Implicit Leadership Theory 406 Charismatic Leadership Theory 406 Substitutes for Leadership 407 Women in Leadership Roles 409 Overview of Leadership Research 412 Major Chapter Objectives in Review 413 CASE STUDY—What Type of Leader Do I Want? 413

12 Organizational Communication 416

Definition of Communication 417 417 Purposes of Communication A Model of Communication Communication in Work Behavior 420 Selection 420 lob Performance 421 Performance Appraisal 422 Training 423 Organizational Climate 423 Nonverbal Communication 424 Techniques of Communicating in Organizations Downward Communication 426 Upward Communication 428 Methods of Studying Organizational Communication 430 Activity Sampling 430 Sociogram 431

Ecco Analysis 431

Flesch Index 432

The Effects of Organizational Structure on Communication 433

Size 433

Centralized/Decentralized Shape 434

Degree of Uncertainty 435

Communication Structure Variables 435

Communication Networks 435

Communication Roles 437

Communication Modalities 438

Communication Process Variables 439

Accuracy 439

Openness 440

Distortion 440

Overload 441

The Outcomes of Communication 442

Performance 442

Satisfaction 443

Summary 444

Major Chapter Objectives in Review 445

CASE STUDY—What Do You Want to Know? 445

SECTION FOUR The Work Environment

13 Job Design and Organization Development 451

To Alter the Worker or the Workplace? 451

Job Design 452

Historical Overview 452

Job Enlargement and Job Enrichment 453

Task Attributes 454

Job Characteristics Model 455

Measurement of Job-Design Variables 459

How to Redesign Jobs 461

Effectiveness of Job-Redesign Programs 464

Organizational Implications of Job Redesign 465

Organization Development 467

What Is OD? 467

The Need for OD 468

Three Basic Concepts 469

Generalized Models of Change 471

Typology of OD Interventions 475

Major OD Interventions 476

An Illustrative Example 479

Research on OD 481

Values and Ethics in OD 484

Summary 485

Major Chapter Objectives in Review 485

CASE STUDY—How Do I Create Teamwork? 485

14 Union/Management Relations 488

What Is a Union? 490

Unions as Organizations 491

The Formation of a Union 492

The Labor Contract 493

Collective Bargaining and Impasse Resolution 496

Responses to Impasse 499

Disputes over Contract Interpretation 502

Influence of Unions on Nonunionized Companies 506

Behavioral Research on Union/Management Relations 506

Employee Support for Collective Bargaining 507

Union Influence 508

Dispute Settlement 511

Commitment to the Union 511

Unions and the Content of I/O Psychology 512

Personnel Selection 512

Personnel Training 513

Performance Appraisal 514

lob Satisfaction 515

Motivation 515

Leadership 516

Organizational Communication 516

Summary 517
Major Chapter Objectives in Review 517
CASE STUDY—Should We Let in a Labor Union? 517

15 Work Conditions 520

Physical Stressors in the Workplace 520

Noise 521

Heat 524

Cold 526

Multiple Stressors 527

Fatigue 528

Ergonomic Approaches to Work Design 529

Anthropometrics 530

Biomechanics 533

Physiological 534

Overview 536

Safety and Accidents 536

Safety Legislation 537

Psychological Approaches to Accident Reduction 538

Personnel-Selection Approach 538

Engineering-Psychology Approach 540

Personnel-Training Approach 541

Overview 543

Work Schedules 546

Shift Work 546

Shorter Workweek 549

Flexible Working Hours 551

Alcoholism and Drug Abuse in the Workplace 553

Concluding Comments 554

Major Chapter Objectives in Review 555

CASE STUDY—Will Life Ever Get Back to Normal? 556

REFERENCES 559

AUTHOR INDEX 607

SUBJECT INDEX 619