Contents

Part 1	Today's Psychological Research
	1 Applied Psychology: An Introduction 2 W. Jeffrey Burroughs, Clemson University W. Larry Gregory, New Mexico State University
	A Displaced Preface: Genesis of This Book 3 Historical Context 4 The Trend toward Applications 4 Meeting Society's Needs 4 Making Psychology Relevant 8 Supporting and Enriching Theory 8 Basic Research and Applied Psychology 9 Mapping the Territory 10 Glossary 11
	2 Research Methods Used in Applied Settings 13 David Martin, New Mexico State University
	Getting a Research Idea 15 Finding Out What Has Been Done 16 Designing Research 18 Multiple-Variable Designs 21 Correlational Designs 23 Regression Designs 24 Factor-Analysis Designs 26 Quasi-experimental Designs 26 Single-Case and Small-N Designs 29 Observational Techniques 32 Case Studies 33 Activity-Sampling Techniques 34 Process Analysis 35 Critical-Incident Techniques 35
	Analysis of Results 37 Conclusion 39

Glossary 39

3 **Engineering Psychology** 42 David Martin, New Mexico State University What Is Engineering Psychology? What Do Engineering Psychologists Do? 46 Job Activities 47 Work Settings 53 What's in the Name? 54 Research and Applications 56 Types of Design Decisions 56 Case Study: Developing the Kodak Disc Camera 66 Conclusion 73 Glossary 73 4 Industrial and Organizational Psychology 75 Peter Dorfman, New Mexico State University What Is Industrial/Organizational Psychology? 76 Specialty Areas 78 79

Related Disciplines What Do Industrial/Organizational Psychologists Do? 80 Job Activities 80 Work Settings 81 Research and Applications 84 Personnel Psychology 84 Organizational Psychology 101 Critical Issues Facing the Work Force 113 Conclusion 125 Glossary 126

5 Organizational Development 127

George T. Brennan, Massachusetts Mutual Life Insurance Company

Joe Gabbert, Need Data Central

What Is Organizational Development? What Do Organizational Development Professionals Do? 133 Job Activities 133 Work Settings Research and Applications 144 Team Building 142 Survey Feedback 143 Conflict Resolution 144 Strategic Planning 145

	Structural Interventions 146 Case Study of an Office in Transition 146 The Future of Organizational Development 149 onclusion 152 llossary 152
6 A	pplied Cognitive Psychology 154 Kenneth R. Paap, New Mexico State University
W R	 Inat Is Applied Cognitive Psychology? 155 Cognitive Psychology as Information-Processing 155 Past and Present Approaches to Application 158 Inat Do Applied Cognitive Psychologists Do? 160 esearch and Applications 161 Photointerpretation: Schemas and Top-Down Processing in Scene Perception 161 Human Computer Interaction: Errors in Response Selection and Execution 170 onclusion 179 lossary 180
7 C	onsumer Psychology 181 John C. Mowen, Oklahoma State University
W R	Consumer Inputs 182 Information Reception 186 Memory Systems 188 Consumer Decision Making 188 Personal Factors 190 Ihat Do Consumer Psychologists Do? 192 Job Activities 192 Work Settings 193 esearch and Applications 195 Split Brains: A Psychological Delicacy 195 Children and Advertising 198 Getting the Consumer to Say Yes 204 onclusion 208 lossary 209
Psycho	logy in Community Settings 211

212

214

George Chartier, Arizona State University

What Is Clinical Psychology? 213 What Do Clinical Psychologists Do?

Part 3

8

Clinical Psychology

Job Activities 215
Work Settings 225
Research and Applications 226
A Clinical Case Study 226

Single-Subject Clinical Research 227

Programmatic Clinical Research: Modeling Therapies 230

Conclusion 240 Glossary 241

9 Community Psychology 242

Irwin N. Sandler, Arizona State University Manuel Barrera, Arizona State University

What Is Community Psychology? 243

Outcome Objectives 243

Ecological Approach to Intervention 245

Historical Context: A Response to Dissatisfaction 246

What Do Community Psychologists Do? 251

Assessing Community Needs and Services 252

Applying Behavioral Techniques to Social Problems 252

Developing Human Service Programs 252

Planning Changes to Solve Social Problems 253

Building Competencies in Individuals

and Environments 253

Research and Applications 253

Assessing Community Needs and Services 254

Behavioral Approaches to Community Psychology

Development of Human Service Programs 261

Planning Changes to Solve Social Problems 266

Building Competencies in Individuals and Environments:

259

Prevention and Enhancement 269

Conclusion 273 Glossary 273

10 Health Psychology 275

Marc Schaeffer, Uniformed Services University Andrew Baum, Uniformed Services University

What Is Health Psychology? 276

Models of Stress 278

Effects of Stress 280

Factors That Influence Stress 282

Behavioral Factors in Illness 283

What Do Health Psychologists Do? 285

Research and Applications 286 Behavior and Heart Disease 286 Behavior and Cancer 287 288 Behavior and Arthritis Health Behavior and Treatment 290 Reducing Medical Distress 293 Attitudes toward Health Care 295 Compliance with Physician Advice 296 Conclusion 298 Glossary 299 Applied Social Psychology 301 Steven G. West, Arizona State University John W. Reich, Arizona State University Michael A. McCall, Xerox Corporation, Rochester Arthur Dantchik, First Options, Philadelphia What Is Applied Social Psychology? 302 303 Full-Cycle Model Historical Context 304 The Current State 305 What Do Applied Social Psychologists Do? 305 Job Activities 305 Work Settings 306 Research and Applications 307 Research on Perceived Control and Health 307 Interventions in Educational Settings: Retraining of Attributions for Success and Failure Competitiveness, Achievement, and Race Relations: The Jigsaw Classroom 314 Research on Smoking and Substance-Abuse Prevention 319 Conclusion 325 Glossary 326 Psychology and the Law 327 Valerie P. Hans, University of Delaware What Is Legal Psychology? 328 What Do Legal Psychologists Do? 330 Research and Applications 330 Prediction of Violent Behavior 331 The Insanity Defense 337 Eyewitness Testimony 342

The Psychology of Jury Selection

350

11

12

	Psychologists and Criminal Behavior: A Focus on Rape 356 Other Topics in the Psychology-Law Area 362 Conclusion 366 Glossary 368	
	13 Applied Environmental Psychology 369 W. Jeffrey Burroughs, Clemson University	
	What Is Environmental Psychology? 370 Applied Orientation 370 Interdisciplinary Nature of the Field 371 Interrelationship of Environment and Behavior 371 Level of Analysis 373 What Do Applied Environmental Psychologists Do? 374 Job Activities 374 Work Settings 376 Research and Applications 377	
	Interpreting the Environment: The Problem of	
	Wayfinding 378 Interpreting the Environment: Differences between People 380	
	Acting in the Environment: Reinforcement of Environmental Relevant Behavior 381	lly
	Acting in the Environment: Proxemics 384 Responding to the Environment: Impact of the Physical Environment 390 Responding to the Environment: Ecological	
	Psychology 382	
	Evaluating the Environment: Environmental Attitudes 39 Evaluating the Environment: Environmental Assessment 395 Conclusion 397	4
	Glossary 399	
Part 4	Psychology and Human Development 401	
	14 Applied Psychology in Education 402 Timothy J. Pettibone, University of Tennessee Hal W. Jernigan, University of Tennessee	
	What Is School Psychology? 404 What Do School Psychologists Do? 405 Historical Perspective 405 Job Activities 408 Work Settings 410	

Issues in School Psychology 410 Careers in School Psychology 411 What Is Applied Educational Psychology? 411 What Do Applied Educational Psychologists Do? 413 Job Activities 413 Work Settings 414 Research and Applications 415 What is Known about Effective Teaching 415 How Human Beings Learn 419 Careers in Educational Psychology 421 Conclusion 422 Glossary 422
Applied Sport Psychology 424 Mark Ansel, University of Wollongong Wollongong, New South Wales, Australia
What Is Sport Psychology? 424 Sport Psychology and Athletic Performance 426 Historical Context 429 What Do Sport Psychologists Do? 430 Job Activities 431
Work Settings 433 Research and Applications 434 Educational Psychology 435 Social Psychology 437 Developmental Sport Psychology 439 Experimental Sport Psychology 441 Counseling Sport Psychology 445 Health and Exercise Psychology 449 Personality Psychology 453 Conclusion 454 Glossary 456
Applied Developmental Psychology Nancy Eisenberg, Arizona State University Jerry Harris, Arizona State University Karlsson Roth, Arizona State University
What Is Applied Developmental Psychology? 458 What Do Applied Developmental Psychologists Do? 459 Historical Context 459 Job Activities and Work Settings 460 Research and Applications 460 Infant Development 460

Day Care and Intervention Programs in the
Preschool Years 475
Assessment and Training of Social Skills in Children 484
Stimulation of Cognitive Performance in Old Age 493
Conclusion 496
Glossary 496

Appendix A An Introduction to Program Evaluation 497

W. Larry Gregory, New Mexico State University

What Is Program Evaluation? 498 Purposes of Program Evaluation 498 Program Evaluation as a Profession 499 Strategies in Evaluation 500 Factors to Consider in Planning Evaluations 501 Methodologies for Evaluation Research 503 Medical and Tailored Models of Evaluation 507 Issues in Program Evaluation 509 Withholding Treatment 509 Bureaucratic Resistance to Program Evaluations 509 Cost-Benefit Analysis 511 The Experimenting Society 512

Appendix B Resources for Additional Information on Applied Psychology 514

W. Jeffrey Burroughs, Clemson University W. Larry Gregory, New Mexico State University

References R1

Acknowledgments A1

Index 11