BRIEF CONTENTS

		1 / Introduction to Behavior Modification 1
PART	1	Measurement of Behavior and Behavior Change
		2 / Observing and Recording Behavior 19
		3 / Graphing Behavior and Measuring Change 43
)	Examples of Behavior 4
PART	_	Basic Principles Most a notiselibol noived a printection of the printection of the printection of the printer o
		4 / Reinforcement 65
		5 / Extinction 91
		6 / Punishment 105 7 / Stimulus Control. Discrimination and Concrelization 127
		7 / Stimulus Control: Discrimination and Generalization 127 8 / Respondent Conditioning 145
	Thened I	8 / Respondent Conditioning 145
PART	3	Procedures to Establish New Behavior
		9 / Shaping 163
		10 / Prompting and Transfer of Stimulus Control 181
	la annie	11 / Chaining 201
		12 / Behavioral Skills Training Procedures 223
PART	4	Procedures to Increase Desirable Behavior and Decrease
		Undesirable Behavior
		13 / Understanding Problem Behaviors through Functional Assessment 243
		14 / Applying Extinction 273
		15 / Differential Reinforcement 297
		16 / Antecedent Control Procedures 327
		17 / Using Punishment: Time-Out and Response Cost 353
		18 / Positive Punishment Procedures and the Ethics of Punishment 373
		19 / Promoting Generalization 393
PART	5	Other Behavior Change Procedures
		20 / C-16 M
		21 / Habit Rayaraal Proceedures 421
		22 / The Token Francis 447
		22 / Rohavioral Contracto 460
		24 / Francisch, Dadastin, Das Jan 107
		24 / Fear and Anxiety Reduction Procedures 48/ 25 / Cognitive Behavior Modification 509
		proportion about Extinction 100 Appellate A Total Contract of the Contract of

CONTENTS

Preface xvi

Chapter 1 Introduction to Behavior Modification

Defining Human Behavior 2 Examples of Behavior 4 Defining Behavior Modification Characteristics of Behavior Modification Historical Roots of Behavior Modification 8 Major Figures 8 Early Behavior Modification Researchers 11 Major Publications and Events 11 Areas of Application 12

Developmental Disabilities 12 Mental Illness 12 Education and Special Education Rehabilitation 13 Community Psychology 13 Clinical Psychology 13 Business, Industry, and Human Services 13 Self-Management

Child Behavior Management 14

Prevention 14 Sports Performance 14 Health-Related Behaviors 14 Gerontology 15 Professional Practice, Certification, and Ethics 15 The Structure of This Textbook 15

Measurement of Behavior and Behavior Change 16 Basic Principles of Behavior 16 Procedures to Establish New Behaviors 16 Procedures to Increase Desirable Behaviors and Decrease Undesirable Behaviors Other Behavior Change Procedures 16

Chapter Summary 17 Key Terms 17 Practice Test 17

Measurement of Behavior and Behavior Change

Chapter 2 Observing and Recording Behavior 19

Direct and Indirect Assessment 20 Defining the Target Behavior 21 The Logistics of Recording 23 The Observer 23 When and Where to Record 24 Choosing a Recording Method 26

Continuous Recording 26 Percentage of Opportunities 29 Product Recording 29 Interval Recording 30 Time Sample Recording 31 Choosing a Recording Instrument 32 Reactivity 36
Interobserver Agreement 37
Chapter Summary 39
Key Terms 40

Practice Test 40
Applications 41
Misapplications 42

Chapter 3 Graphing Behavior and Measuring Change 43

Graphing Behavioral Data 47
Graphing Data from Different Recording Procedures 50
Research Designs 51
A-B Design 52
A-B-A-B Reversal Design 53
Multiple-Baseline Design 54

Alternating-Treatments Design 59
Changing-Criterion Design 60
Chapter Summary 61
Key Terms 62
Practice Test 62
Applications 62
Misapplications 63

PART 2 Basic Principles

Chapter 4 Reinforcement 65

Defining Reinforcement 67

Positive and Negative Reinforcement 70

Social versus Automatic Reinforcement 73

Escape and Avoidance Behaviors 73

Conditioned and Unconditioned Reinforcers 75

Factors That Influence the Effectiveness of Reinforcement 76

Immediacy 76

Contingency 77

Motivating Operations 77

Variable Ratio 83
Fixed Interval 84
Variable Interval 85
Reinforcing Different Dimensions of Behavior
Concurrent Schedules of Reinforcement 87
Chapter Summary 88
Key Terms 88
Practice Test 89

Fixed Ratio 82

Appendix A 90

Schedules of Reinforcement 81

Chapter 5 Extinction 91

Individual Differences 80

Defining Extinction 92
Extinction Burst 95
Spontaneous Recovery 97
Procedural Variations of Extinction 98
A Common Misconception about Extinction 100

Magnitude 81

Factors That Influence Extinction 101
Chapter Summary 103
Key Terms 103
Practice Test 103
Appendix A 104

Appendix B 90

Chapter 6 Punishment 105

Defining Punishment 106

A Common Misconception about

Punishment 108

Positive and Negative Punishment 109

Unconditioned and Conditioned

Punishers 113

Contrasting Reinforcement and Punishment 115

Alternating-Treatments Design

Factors That Influence the Effectiveness

of Punishment 117

Immediacy 117

Contingency 118

Motivating Operations 118

Individual Differences and Magnitude of the

Punisher 120

Problems with Punishment 120

Emotional Reactions to Punishment 121

Escape and Avoidance 121

Negative Reinforcement for the Use of

Punishment 121

Punishment and Modeling 122

Ethical Issues 122

Chapter Summary 123

Key Terms 123

Practice Test 123

Appendix A 125

Chapter 7 Stimulus Control: Discrimination and Generalization 127

Examples of Stimulus Control 128

Defining Stimulus Control 129

Developing Stimulus Control: Stimulus

Discrimination Training 131

Discrimination Training in the Laboratory 131

Developing Reading and Spelling with Discrimination Training 133

Stimulus Discrimination Training and Punishment 134 The Three-Term Contingency 134

Stimulus Control Research 135

Generalization 136

Examples of Generalization 138

Chapter Summary 142

Key Terms 143

Practice Test 143

Appendix A 143

Chapter 8 Respondent Conditioning 145

Examples of Respondent Conditioning 146

Defining Respondent Conditioning 146

Timing of the Neutral Stimulus and

Unconditioned Stimulus 149

Higher-Order Conditioning 151

Conditioned Emotional Responses 151

Extinction of Conditioned Responses 153

Spontaneous Recovery 154

Discrimination and Generalization of Respondent Behavior 154

Factors That Influence Respondent

Conditioning 155

The Nature of the Unconditioned Stimulus and Conditioned Stimulus 155

The Temporal Relationship between the Neutral Stimulus and Unconditioned Stimulus 155

Contingency between the Neutral Stimulus and Unconditioned Stimulus 156

The Number of Pairings 156

Previous Exposure to the Conditioned
Stimulus 156

Distinguishing between Operant and
Respondent Conditioning 157
Respondent Conditioning and Behavior
Modification 160

Chapter Summary 160
Key Terms 161
Practice Test 161

PART 3 Procedures to Establish New Behavior all Blowers to asignest

Chapter 9 Shaping 163

An Example of Shaping: Teaching a Child to Talk 163

Defining Shaping 164

Applications of Shaping 166

Getting Mrs. F to Walk Again 166

Getting Mrs. S to Increase the Time between Bathroom Visits 167

Research on Shaping 169

How to Use Shaping 173
Shaping of Problem Behaviors 175

Chapter Summary 178

Key Terms 179

Practice Test 179

Applications 179

Misapplications 180

Chapter 10 Prompting and Transfer of Stimulus Control 181

An Example of Prompting and Fading: Teaching Little Leaguers to Hit the Ball 182

What Is Prompting? 183

What Is Fading? 184

Types of Prompts 186

Response Prompts 187

Stimulus Prompts 188

Transfer of Stimulus Control 190

Prompt Fading 190

Prompt Delay 192

Stimulus Fading 193

How to Use Prompting and Transfer of Stimulus Control 195

Prompting and Transfer of Stimulus Control in Autism Treatment 198

Chapter Summary 198

Key Terms 199

Practice Test 199

Applications 200

Misapplications 200

Chapter 11 Chaining 201

Examples of Behavioral Chains 202

Analyzing Stimulus-Response

Chains 202

Task Analysis 204

Backward Chaining 207

Forward Chaining 209

Total Task Presentation 211

Other Strategies for Teaching Behavioral Chains 215

Written Task Analysis 215

Picture Prompts 215

Video Modeling 216

Self-Instructions 217

How to Use Chaining Procedures 218

Chapter Summary 220 Key Terms 220 Practice Test 220 Applications 221

Misapplications 221

Chapter 12 Behavioral Skills Training Procedures 223

Examples of Behavioral Skills Training Procedures 224

> Teaching Marcia to Say "No" to the Professors 224

Teaching Children to Protect Themselves from Abduction 224

Components of the Behavioral Skills Training Procedure 225

Instructions 225

Modeling 227

Rehearsal 229

Feedback 229

Enhancing Generalization after Behavioral Skills Training 230

In Situ Assessment 231

In Situ Training 231

Behavioral Skills Training and the Three-Term

Contingency 232

Behavioral Skills Training in Groups 233

Applications of Behavioral Skills Training

Procedures 234

How to Use Behavioral Skills Training

Procedures 238

Chapter Summary 240

Key Terms 240

Practice Test 240

Applications 241

Misapplications 241

PART 4 Procedures to Increase Desirable Behavior and Decrease Undesirable Behavior

Chapter 13 Understanding Problem Behaviors through Functional Assessment 243

Examples of Functional Assessment 244

Jacob 244

Anna 245

Defining Functional Assessment 246

Functions of Problem Behaviors 247

Social Positive Reinforcement 248

Social Negative Reinforcement 248

Automatic Positive Reinforcement 248

Automatic Negative Reinforcement 248

Functional Assessment Methods 249

Indirect Methods 249

Direct Observation Methods 252

Experimental Methods (Functional Analysis) 257

Functional Analysis Research 261

Conducting a Functional Assessment 265

Functional Interventions 267

Chapter Summary 267

Key Terms 268

Practice Test 268

Applications 269

Misapplications 271

Chapter 14 Applying Extinction 273

The Case of Willy 274
Using Extinction to Decrease a Problem
Behavior 276

Collecting Data to Assess Treatment Effects 277

Identifying the Reinforcer for the Problem Behavior through Functional Assessment 277

Eliminating the Reinforcer after Each Instance of the Problem Behavior 278

Taking Account of the Schedule of Reinforcement before Extinction 285

Reinforcing Alternative Behaviors 287

Promoting Generalization and

Maintenance 287

Research Evaluating the Use of Extinction 288

Chapter Summary 292

Key Terms 292

Practice Test 292

Applications 293

Misapplications 293

Appendix A 294

Appendix B 295

Chapter 15 Differential Reinforcement 297

Differential Reinforcement of Alternative Behavior 298

Getting Mrs. Williams to Be Positive 298

When to Use DRA 300

How to Use DRA 300

Using Differential Negative Reinforcement of Alternative Behaviors 304

Variations of DRA 306

Research on DRA 306

Differential Reinforcement of Other Behavior 309

Defining DRO 310

Implementing DRO 311

Research Evaluating DRO Procedures 313

Differential Reinforcement of Low Rates of Responding 316

Defining DRL 317

Variations of DRL 317

How are DRO and Spaced-Responding DRL Different? 318

Implementing DRL Procedures 318

Research Evaluating DRL Procedures 320

Chapter Summary 322

Key Terms 323

Practice Test 323

Applications 324

Misapplications 325

Chapter 16 Antecedent Control Procedures 327

Examples of Antecedent Control 328

Getting Marianne to Study More 328

Getting Cal to Eat Right 328

Defining Antecedent Control Procedures 329

Presenting the Discriminative Stimulus (S^D) or Cues for the Desired Behavior 329

Arranging Establishing Operations for the Desirable Behavior 331

Decreasing Response Effort for the Desirable Behavior 333

Removing the Discriminative Stimulus or Cues for Undesirable Behaviors 334

Presenting Abolishing Operations for Undesirable Behaviors 336

Increasing the Response Effort for Undesirable Behaviors 337 Research on Antecedent Control Strategies 338

Manipulating Discriminative Stimuli 338

Manipulating Response Effort

Manipulating Motivating Operations

Using Antecedent Control Strategies 346

Analysis of the Three-Term Contingency for the Desirable Behavior 347

Analysis of the Three-Term Contingency for the Undesirable Behavior 348

Functional Interventions for Problem Behaviors 348

Chapter Summary 349

Key Terms 349

Practice Test 349

Applications 350

Misapplications 351

Using Punishment: Time-Out and Response Cost

Time-Out 354

Types of Time-Out 356

Using Reinforcement with Time-Out 357

Considerations in Using Time-Out 357

Research Evaluating Time-Out Procedures 361

Response Cost 364

Defining Response Cost 365

Using Differential Reinforcement with Response Cost 365

Comparing Response Cost, Time-Out, and Extinction 365

Considerations in Using Response Cost 366

Research Evaluating Response Cost Procedures 368

Chapter Summary 370

Key Terms 370

Practice Test 370

Applications 371

Misapplications 371

Chapter 18 Positive Punishment Procedures and the Ethics of Punishment 373

Application of Aversive Activities 374

Overcorrection 375

377 Contingent Exercise

Guided Compliance 378

Physical Restraint 379

Cautions in the Application of Aversive Activities 381

Application of Aversive Stimulation 381

Positive Punishment: Treatment of Last

Resort 384

Considerations in Using Positive

Punishment 385

The Ethics of Punishment 386

Informed Consent 387

Alternative Treatments 387

Recipient Safety 387

Problem Severity 387

388 Implementation Guidelines

Training and Supervision

Peer Review 388

Accountability: Preventing Misuse and

Overuse 388

389 Chapter Summary

Key Terms 389

Practice Test 389

Applications 390

Misapplications 390

393 Chapter 19 Promoting Generalization

Examples of Generalization Programming Defining Generalization Strategies for Promoting Generalization of Behavior Change 395

Reinforcing Occurrences of Generalization 395 Training Skills That Contact Natural Contingencies of Reinforcement 397

Modifying Contingencies of Reinforcement and Punishment in the Natural Environment 399

Incorporating a Variety of Relevant Stimulus Situations in Training 400

Incorporating Common Stimuli 403

Teaching a Range of Functionally Equivalent Responses 403

Providing Cues in the Natural Environment 404

Incorporating Self-Generated Mediators of Generalization 405

Implementing Strategies to Promote Generalization 406

Promoting Generalized Reductions in Problem Behaviors 407

Chapter Summary 409

Key Terms

Practice Test 410

Applications

410 Misapplications 411

Other Behavior Change Procedures

Chapter 20 Self-Management 413

Examples of Self-Management 414 Getting Murray to Run Regularly 414 Getting Annette to Clean Up Her Mess 414

Defining Self-Management Problems 416

Defining Self-Management 418

Types of Self-Management Strategies 418

Goal-Setting and Self-Monitoring 419

Antecedent Manipulations 419

Behavioral Contracting 420

Arranging Reinforcers and Punishers 421

Social Support 422

Self-Instructions and Self-Praise 423

Establishing the Time and Place for Exchanging

Steps in a Self-Management Plan 424

Clinical Problems 427

Chapter Summary 428

Key Terms 428

Practice Test 429

Applications 429

Misapplications 430

Chapter 21 Habit Reversal Procedures 431

Examples of Habit Behaviors 432

Defining Habit Behaviors 432

Nervous Habits 433

Motor and Vocal Tics 433

Stuttering 434

Habit Reversal Procedures 435

Applications of Habit Reversal 436

Nervous Habits 436

Motor and Vocal Tics 437

Stuttering 438

Why Do Habit Reversal Procedures Work? 439
Other Treatment Procedures for Habit
Disorders 442
Chapter Summary 444
Key Terms 444

Practice Test 444
Applications 445
Misapplications 445

Chapter 22 The Token Economy 447

Rehabilitating Sammy 447

Defining a Token Economy 449

Implementing a Token Economy 449

Defining the Target Behaviors 449

Identifying the Items to Use as Tokens 451

Identifying Backup Reinforcers 451

Deciding on the Appropriate Schedule of Reinforcement 453

Establishing the Token Exchange Rate 454

Establishing the Time and Place for Exchanging Tokens 454

Staff Training and Management 456

Practical Considerations 456

Applications of a Token
Economy 457

Advantages and Disadvantages of a Token
Economy 464

Chapter Summary 464

Key Terms 465

Practice Test 465

Applications 465

Misapplications 466

Chapter 23 Behavioral Contracts 469

Deciding Whether to Use Response Cost 455

Examples of Behavioral Contracting 470

Getting Steve to Complete His Dissertation 470

Helping Dan and His Parents Get Along Better 471

Defining the Behavioral Contract 472
Components of a Behavioral Contract 473
Types of Behavioral Contracts 475

One-Party Contracts 475
Two-Party Contracts 476

Negotiating a Behavioral Contract 477
Why Do Behavioral Contracts Influence
Behavior? 478
Applications of Behavioral Contracts 479
Chapter Summary 483
Key Terms 483
Practice Test 483
Applications 484
Misapplications 484

Chapter 24 Fear and Anxiety Reduction Procedures 487

Examples of Fear and Anxiety Reduction 488

Overcoming Trisha's Fear of Public Speaking 488

Overcoming Allison's Fear of Spiders 488

Defining Fear and Anxiety Problems 490

Procedures to Reduce Fear and Anxiety 492
Relaxation Training 492

Systematic Desensitization 498
In Vivo Desensitization 499

Advantages and Disadvantages of Systematic and In Vivo Desensitization 503

Other Treatments for Fears 504

Clinical Problems 505

Chapter Summary 505

Key Terms 506
Practice Test 506
Applications 506
Misapplications 507

Chapter 25 Cognitive Behavior Modification 509

Examples of Cognitive Behavior Modification 510

Helping Deon Control His Anger 510
Helping Claire Pay Attention in Class 511

Defining Cognitive Behavior Modification 513

Defining Cognitive Behavior 513

Functions of Cognitive Behavior 514

Cognitive Behavior Modification Procedures 515

Cognitive Restructuring 515

Cognitive Coping Skills Training 520
Acceptance-Based Therapies 522

Clinical Problems 523
Chapter Summary 523
Key Terms 523
Practice Test 524
Applications 524

Misapplications 525

undesirable behaviors are considered in Chapters 13-19. Finally, Chapters 20-25

Glossary 527

References 539

Name Index 557
Subject Index 563

Quizzes Q1