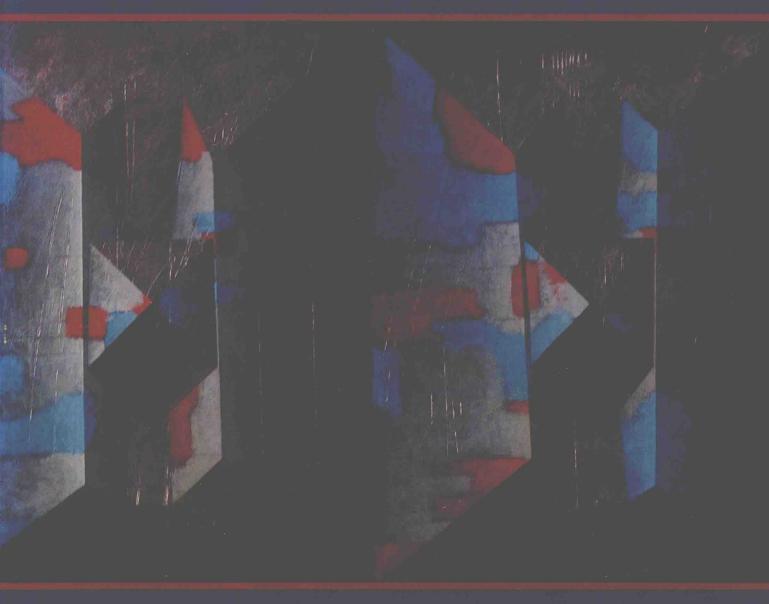
THE WORLD OF PSYCHOLOGY



ELLEN R. GREEN WOOD - SAMUEL E. WOOD

The World of Psychology

Ellen R. Green Wood

Samuel E. Wood

St. Louis Community College-Meramec

Higher Education Center of St. Louis

Allyn and Bacon

Boston London T

Toronto Sydney

Tokyo

Singapore

DEDICATION

In honor of our parents, this book is dedicated with love and gratitude to Edna Shores Rosenthal and the late Adam Rosenthal and to Rev. S. E. Wood and Daisy Jernigan Wood.

Editor-in-Chief, Social Sciences: Susan Badger Developmental Editor: Elizabeth Brooks Senior Editorial Assistant: Dana Hayes Cover Administrator: Linda Dickinson Manufacturing Buyer: Louise Richardson Signing Representative: Ward Moore Production Coordinator: Leslie Olney Editorial-Production Service: Publicom, Inc.

Cover Designer: Studio Nine



Copyright © 1993 by Allyn and Bacon A Division of Simon & Schuster, Inc. 160 Gould Street Needham Heights, MA 02194

All rights reserved. No part of the material protected by this copyright notice may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the written permission of the copyright owner.

Library of Congress Cataloging-in-Publication Data

Wood, Ellen R. Green.

The world of psychology / Ellen R. Green Wood, Samuel E. Wood; instructor's section and annotations prepared by Mark Garrison.

Annotated instructor's ed.

Includes bibliographical references and indexes. ISBN 0-205-15001-2 (AIE). — ISBN 0-205-13756-3 (SE) 1. Psychology. I. Wood, Samuel E. II. Garrison, Mark (Mark

David) III. Title.

[DNLM: 1. Psychology. BF 121 W874w]

BF121.W665 1993 150-dc20 DNLM/DLC

for Library of Congress

92-48992

Printed in the United States of America

10 9 8 7 6 5 4 3 2 97 96 95 94 93

Credits

Opener Michael Dwyer/Stock Boston p. 2 (upper) Brad Markel/ Gamma Liaison p. 2 (lower) Brad Markel/Gamma Liaison p. 3 UPI/Bettman p. 5 Bob Daemmrich/Stock Boston p. 18 Courtesy of Cable News Network, Inc. p. 23 The Granger Collection

The credits continue on the pages following the index. They should be considered an extension of the copyright.

Preface

Our goals in writing this book can be summarized as a desire to introduce the world of psychology accurately, faithfully, and clearly to students in an interesting and memorable format. We have tried to present the principles of psychology by using a clear and engaging writing style in a pedagogically sound learning format that is accessible and appealing to students.

We are sensitive to the many complexities of the teaching/learning process, having taught thousands of students their first course in psychology. Over the years we have witnessed changes in our field of study, in our students, and in ourselves as well. Thus, we sought to create a textbook that is sensitive to the changing needs of modern students and their professors and that would provide a context through which the reader may learn about psychology's past, its present, and its probable future.

To accomplish our goals we set forth the following objectives:

To Maintain a Clear, Understandable Writing Style That Students Will Find Interesting.

First and foremost a textbook is a teaching instrument. It cannot be a novel, nor should it be an esoteric, academic treatise. A good psychology text must communicate to a diverse audience of varying ages and levels of academic ability. Our text will be appealing to the academically accomplished student yet accessible to students whose academic skills are yet to be fully developed.

We seek to achieve this objective by explaining concepts in much the same way we would if the reader were a student in our own psychology classes. Throughout the text we have sought to ensure a flow and continuity by using a dialogic style which avoids abrupt steps in thought. This text is also filled with everyday examples pertinent to the student's life.

To Provide a Series of High-Interest Features That Will Appeal To Today's Students.

In keeping with this goal, every chapter opens with a lively, high-interest vignette to capture student interest and build motivation. Also, we have prepared three types of boxed features: (1) World of Psychology: Applications to show practical applications of the principles of psychology, (2) World of Psychology: Multicultural Perspectives to explore issues involving race, gender, and ethnic and cultural diversity, and (3) World of Psychology: Pioneers to give due prominence to some of our pioneers and to show their human side as well as their contributions to the field.

To Encourage Students To Become Active Participants in the Learning Process.

Reading about psychology is not enough. Students should be able to try,

where appropriate, what they have learned. Many of the principles we teach can be demonstrated, often without elaborate equipment and sometimes as the student reads. What better way to teach new material and to make it fresh, interesting, and memorable than to have students demonstrate principles for themselves with *Try It!*, an important and innovative feature of *The World of Psychology*. This feature personalizes psychology and makes it come alive. Student involvement is also promoted through the extensive use of rhetorical questions and by casting the student in the role of the subject in selected studies, such as the role of the "teacher" in the Milgram experiment. Thus, students who use *The World of Psychology* will become active participants in the learning process rather than simply passive recipients of information.

To Promote and Nurture Critical Thinking

Critical thinking does not consist of being critical of all viewpoints other than our own. To live peacefully in an increasingly diverse society, we must learn to develop an understanding and appreciation for conflicting viewpoints in the multitude of issues that divide us—psychological, social, economic, political, moral, and ethical.

Critical thinking is too important to leave to chance. While opportunities for critical thinking are provided throughout the text, we have also developed a systematic method for nurturing critical thinking. A *Thinking Critically* section appears at the end of each chapter and features three categories of critical thinking questions:

- Evaluation questions teach students to think critically as they evaluate psychological theories, techniques, approaches, perspectives, and research studies.
- 2. Point/Counterpoint questions require students to comprehend, to analyze, and to formulate convincing arguments to support both sides of important issues in psychology.
- 3. Psychology in Your Life questions allow students to apply psychological principles and concepts in their own lives and in the practical, everyday world.

To Help Students Understand and Appreciate Human Diversity and the Part That Multicultural Issues Play in Modern Psychology

To accomplish this goal, we have dedicated a series of boxed features entitled World of Psychology: Multicultural Perspectives to cover a wide range of multicultural issues. Among them are "Cultural Values and Academic Achievement," "Culture, Race, and Care for the Elderly," "Mate Preferences around the World," "The Glass Ceiling: Few Women and Minorities at the Top," and "Gestures: Different Meanings in Different Countries." In addition, human diversity has been considered in relation to dozens of other topics throughout the text.

Finally, issues relating to human diversity are explored in chapter 17, "The World of Psychology: Multicultural Issues and Applications," and in chapter 11, "Human Sexuality and Gender."

To Achieve a Balance between Psychological Principles and Applications.

To present psychological principles alone may leave students wondering what psychology has to do with their own lives. The World of Psychology: Applications features help students apply psychology to their personal lives and to contemporary issues or problems in the larger cultural milieu. Some of the topics are "Noise and Hearing Loss: Bad Vibrations," "Date Rape: New Outrage on Campus," "Thinking and Depression: Avoiding Cognitive Traps," "The Effects of Nonmaternal Care on Children," and "The Polygraph: Lie Detector or Emotion Detector?"

In addition, the second half of chapter 17 explores the major areas in applied psychology—I/O, environmental, architectural, forensic, sports, and consumer psychology. Finally, every chapter contains a critical thinking question, "Psychology in Your Life," which requires students to consider the many ways psychological principles can be applied to their own lives and to life in general.

To Be Current in Our Coverage While Preserving the Classic Contributions in Our field.

Advances in knowledge and research are occurring at an ever more maddening pace, and modern authors must keep abreast. Accordingly, our references reflect the most up-to-date state of the science for the many rapidly changing topics we cover. Yet we do not use newness for its own sake. We include, as well, studies that have stood the test of time, and we explore in depth the classic contributions to psychology.

To Give Students an Appreciation of Psychology's History and Its Pioneers, and an Understanding That Psychology Is a Living, Growing, Evolving Science.

A portion of the introductory chapter is devoted to psychology's history. But, in our view, the history of psychology is best understood and appreciated in the context in which the contributions were made. Consequently, topics like learning, memory, intelligence, emotion, and personality, for example, integrate the historical and research contributions to show how psychology has evolved up to the present day. In addition, emphasis is given throughout the text to pioneers in psychology, and selected pioneers—such as B. F. Skinner, Jean Piaget, and Karen Horney—are featured in *World of Psychology: Pioneers*. We focus on the human qualities of the pioneers, their life struggles and successes along with their contributions, to bring the history of psychology alive for students.

To Provide an Accurate and Thoroughly Researched Textbook That Features Original Sources.

To accomplish our goals of introducing the world of psychology accurately, faithfully, and clearly, we have gone back to original sources and have reread

the basic works of the major figures in psychology and the classic studies in the field. This has enabled us to write with greater clarity and assurance, rather than having to hedge or write tentatively when discussing what experts in the field have actually said. This book is among the most carefully researched on the market, among the most up to date, and among the most extensively referenced textbooks available.

To Provide a Sound Pedagogical System Woven Throughout the Text and the Learning Package

The pedagogical system consists of the following components:

Learning Objectives/Questions Learning objectives—written in question form—guide student reading, focus attention on key information, provide a framework for a SQ3R approach, and assist students in preparing for exams.

Memory Checks An average of six Memory Checks appear during each chapter to encourage students to pause at the end of sections and test their comprehension of the material just read.

Margin Glossary A margin glossary provides a ready reference for important Key Terms, which appear in boldface print in the text, and for additional terms that appear in italics. All definitions also appear in the end-of-text Glossary. Phonetic pronunciations are provided for hard-to-pronounce terms.

Chapter Summary and Review The Chapter Summary and Review section, arranged according to the major headings in the chapter, provides condensed answers to the learning objectives/questions and also lists the Key Terms for each topic. This feature is useful as a preview to the chapter and as a review in preparing for tests.

All of these features support a modified SQ3R approach, which is explained to the student in chapter 1, in World of Psychology: Applications—Sharpening Your Study Skills.

SQ3R The SQ3R technique is a systematic approach to maximize learning, improve retention, and develop more effective study skills. *SQ3R* stands for *Survey*, *Question*, *Read*, *Recite*, and *Review*. Briefly stated, to follow the SQ3R method, students complete these steps:

Survey First students are encouraged to look over the Chapter Outline at the beginning of each chapter, read the opening vignette, read all the topic headings and study questions, glance at the illustrations, and read the Chapter Summary and Review. This will provide an overview of the chapter.

Question Students are encouraged to read the learning objectives and to turn the topic headings into one or more questions before they read each section in the chapter.

Read Next students read a section of the text in an attempt to answer the learning objectives and other questions of their own, and then stop at the Memory Check.

Recite Students are encouraged to write or recite the answers to the learning objectives and their own questions or to write a short summary of the section.

Review Students should complete the Memory Check before beginning the next section of the text. When they have finished the chapter, they should turn to the Chapter Summary and Review section and review each of the study questions and answer them in their own words. The answers provided are given only as condensed, basic answers that they will want to expand on. Finally, students should be sure they understand the Key Terms. Definitions for the Key Terms appear in the margin glossary or tables on the pages indicated in parentheses.

To Provide Instructors and Students with a Complete, Coordinated Teaching and Learning Package of the Highest Quality

The Annotated Instructor's Edition has been developed by Mark Garrison of Kentucky State University to encourage student involvement and understanding. It is comprised of two parts: the instructor's section bound into the front of the book, and the detailed annotations that appear in blue type in the margins of the book. The annotations include teaching suggestions, examples, activities, critical thinking topics, multicultural issues, and references to the Test Bank items and the many visual aids that accompany the book.

Along with the Annotated Instructor's Edition is a separate Activities and Demonstrations Manual, also prepared by Mark Garrison, which provides detailed instructions for all of the activities, plus more than 150 ready-to-duplicate handouts.

The book is also supported by a comprehensive computer-ready test item file and printed Test Bank, prepared by Janet Simons of Central Iowa Psychological Services. The Test Bank includes detailed explanations for answers to each item to help students understand *why* an answer is correct.

An innovative study guide with language enrichment, prepared by Joyce Bishop of Golden West College, is available for students. It was carefully coordinated with the Test Bank and the textbook, and it includes practice multiple-choice tests with explanations for answers, extra help with vocabulary, flashcards, and many other features.

A wide array of additional supplementary materials are also available with this book. These include Allyn and Bacon's exclusive CNN videos of brief, upto-the-minute reports on current issues in psychology, a Level 3 Video Disk, Allyn and Bacon's extensive video library, a newly revised set of color transparencies, a booklet of current articles from *The Washington Post* relating to multicultural issues, and more. See your Allyn and Bacon representative for information.

Acknowledgments

We first express our appreciation to Russ Boersma, a treasured friend and respected colleague who first encouraged us to write this textbook and whose continued support and encouragement has helped sustain us through the years of effort in making *The World of Psychology* a reality.

Much of *The World of Psychology* was written in New Harmony, a peaceful and picturesque town in Indiana whose charm and serenity was so magnetic that we have made it our home away from home for the last four years. We owe an unbelievable debt of gratitude to Jane Blaffer Owen for her encouragement and support of the project and for allowing us to spend so many productive and enjoyable months in one of the houses that she and we so love and treasure. New Harmony is a magical place, a jewel in the United States, in large measure because Mrs. Owen has provided the vision and unselfishly devoted her resources and limitless energy to making it so. It has been a rare privilege to know Jane Owen, for her life, her work, and her values have touched us and will always be an inspiration to us. We also thank Gary Gerard, Nancy McIntyre, and all the people at Red Geranium Enterprises and the New Harmony Inn for making our stay in New Harmony so memorable.

Our developmental editor, Elizabeth Brooks, epitomizes what a developmental editor should be, and she deserves a string of accolades too long to include here. Through these years of close work with Beth, we have developed not only a profound respect and admiration for her professional skill, but a deep affection as well. She knew where to cut, where to embellish, when to change and how. Her suggestions and her tireless dedication to the project helped make *The World of Psychology* what it is. Her influence is prominent from cover to cover.

The leader of this project is Susan Badger, Editor-in-Chief of Social Sciences at Allyn and Bacon. From beginning to end, Susan was intimately involved in every aspect of the project. All features of design, pedagogy, content, and organization bear the mark of the thought, work, and taste of Susan Badger. She is a most remarkable person—a consummate professional with exceptional intelligence, judgment, and taste, who is relentless in her pursuit of excellence. We stand in awe of her ability to manage, direct, and orchestrate all the components of highly complex projects. Yet Susan somehow manages to merge these dynamic professional qualities with warmth and personal magnetism—a feat accomplished by few.

We owe a large and growing debt of gratitude to Ward Moore, Senior Publisher's Representative, who brought our manuscript to the attention of Allyn and Bacon and is thus responsible for performing the first act that brought us all together. Ward is highly respected in his field and has championed *The World of Psychology* throughout its production.

We express our thanks and appreciation to Judy Fiske, Vice President of Production, who, from our earliest planning meeting, has skillfully supervised the production of the project, and to Linda Dickinson, Cover Administrator, who designed the cover for the book. We also express our thanks and appreciation to Leslie Olney, Production Coordinator, for guiding the book through the final stages of production, and to Patricia White Maka and Meredith Rutter of Publicom, Inc., for their long hours of hard work in copy editing the manuscript and laying out the book. Our sincere thanks to Dana Hayes, Senior Administrative Assistant, for her flawless administration of the review process. Through countless communications by phone and by mail, Dana has always been a pleasure to work with.

Sandi Kirshner, Vice President of Marketing, and Joyce Nilsen, Marketing Manager for Psychology, have worked tirelessly in developing the marketing strategy for the book, and in providing the publisher's representatives with the information and resources they need. Their work will play a giant role in determining the success of the book, and so will the excellent work of Lou Kennedy, Director of Advertising, and Ron Sohn, Assistant Advertising Manager, who are in charge of brochures, catalogs, and all other materials for presenting the book and the ancillary materials.

Everyone at Allyn and Bacon works hard to maintain a standard of excellence in making fine books. Behind the scenes but very much involved in making our book were John Isley, President of Allyn and Bacon, and Bill Barke, Vice President and Editorial Director. We express our sincere appreciation and deep gratitude to them for their confidence in us and for their commitment to and active involvement in the project. We are honored to have the privilege of working in this creative enterprise with all of the publishing professionals at Allyn and Bacon.

We also thank our respected colleagues in the Psychology Department at St. Louis Community College at Meramec—Jim Wheeler, Bob Allbee, Mike Davies, Beth Powell, and Shari Talley for their interest, support, encouragement, and expertise.

Finally, our sincere thanks to the many colleagues around the country whose expertise helped make the book what it is today. It could never have been written without them.

Reviewers

Joyce Bishop Golden West College

Allen Branum South Dakota State University

Andre Cedras Macomb Community College

Samuel Church Fairmont State College

James Dooley Mercy College

William Dwyer Memphis State University

Thomas Fitzpatrick Rockland Community College Kathleen Fuhs J. Sargeant Reynolds Community College

Wayne Hall San Jacinto College North Campus

Barbara Honhart Baker College of Flint

Claire Lowder Illinois Central College

Lynn McCutcheon Northern Virginia Community College

James Nelson Parkland College

Diane Owsley Elizabethtown Community College

Gregory Pezzetti Rancho Santiago College

Pennie Seibert Boise State University

Pamela Stewart Northern Virginia Community College

Thomas Tighe Moraine Valley Community College

Rene Villa Hillsborough Community College

Everett Wagner San Antonio College

Phyllis Walrad Macomb Community College

Patrick Williams University of Houston–Downtown

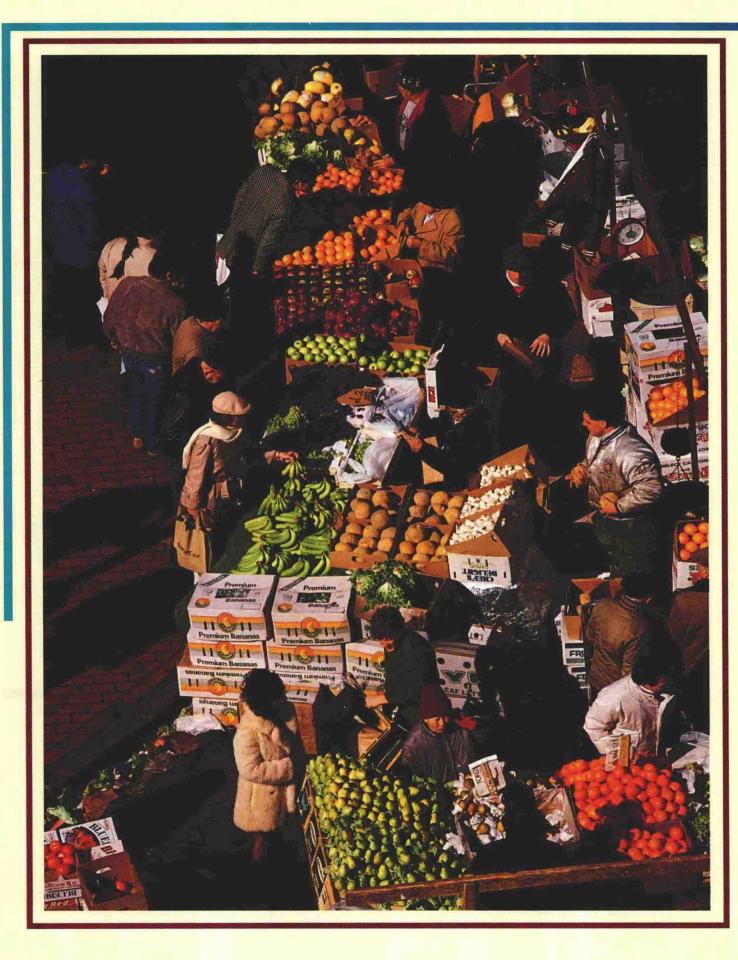
Topics Related to Human Diversity

Following are some of the topics considered from a multicultural perspective Abnormality, cultural definition (p. 477) Achievement motivation (pp. 350-351) Alcohol use and abuse (p. 464) Antipsychotic treatment for schizophrenia (p. 532) Attributional biases (pp. 552-553) Bulimia (p. 302) Discrimination in interview styles (p. 589) in the workplace (pp. 590-591) overcoming discrimination (pp. 593-594) reverse discrimination (p. 592) Elderly, attitudes toward care of (p. 327) Emotional display (p. 363) Emotional expression (p. 361) Eyewitness identification and race (p. 190) Health in America (pp. 458-459) Hearing (p. 88) Infant mortality (p. 267) Intelligence (pp. 244-245) Intelligence testing, cultural bias in (p. 240) Job stress (p. 598) Language development (p. 283) Mate preferences (pp. 558-559) Maternity leave policy (p. 599) Minnesota Multiphasic Personality Inventory (MMPI) (pp. 428-429) Moral development (p. 307) Multiple personality disorder (p. 490) Nonverbal behavior, gestures (p. 551) Perceptual illusions (p. 105) Personal space, cultural differences in (p. 605) Pregnancy, teenage (p. 310) Prejudice (pp. 586-595) Prosocial behavior (p. 575) Psychotherapy (p. 539) Racial tolerance, survey (pp. 594-595) Scapegoating (p. 577) School achievement (pp. 290–291) Sexual behavior, teenage (pp. 310–311) Shift work (p. 116) Stereotyping (p. 588) Surveys (p. 5) Transition from childhood to adolescence (p. 299) U.S. population, racial composition (p. 585)

Following are some of the topics discussed in relation to gender differences
Adult development (pp. 313, 315, 316, 317, 318, 320–321)
Aggression (pp. 374, 376)
Alcohol use and abuse (p. 464)
Body fat, gender differences (p. 468)
Body image, gender differences in (p. 301)
Brain differences (pp. 369, 385)
Child care (p. 316)

Cognitive abilities (p. 375) Discrimination in the workplace (pp. 590-591) Drug therapy, gender differences in dosage effects (p. 539) Early and late maturation in boys and girls (pp. 300-301) Employment (pp. 376, 590-591) Fear of success (pp. 350-351) Freud's view of psychosexual development in males and females (pp. 407-408) Freud's views of women and men (p. 409) Gender stereotyping (pp. 376-377) Health care, gender gap (p. 459) Homosexuality (p. 385) Horney and feminine psychology (pp. 412-413) Job stress, women (p. 598) Jung's concepts of the anima and animus (p. 411) Marital satisfaction (p. 315) Medical treatment, seeking of (p. 454) Menopause (p. 313) Mental disorder, incidence in males and females (pp. 490, 496) Moral development (pp. 306-307) Psychotherapy (p. 539) Rape (p. 394) Sexual arousal (pp. 379-382) Sexual attitudes and behavior (pp. 378, 379) Sexual behavior, teenage (pp. 310-311) Sexual dysfunctions (pp. 387-389) Sex hormones (pp. 369, 381) Sex-role development, theories of (pp. 371-373) Sex-role stereotypes (pp. 376-377) Sex typing and adjustment (pp. 370-371) Sex typing, parental roles in (p. 371) Sexually transmitted diseases, differential effects on males and females (pp. 390, 391, 392) Smoking, gender differences (p. 463) Suicide (pp. 502-503) Surveys (p. 6) Widowhood (p. 326)

Following are some of the topics discussed in relation to aging Attitude change (p. 327) Cognitive development (pp. 323-324) Creative contributions (pp. 313-314) Exercise, benefits of (pp. 298, 466-467) Health and coping skills (pp. 312-313, 323) Hearing loss (p. 88) Intellectual capacity (pp. 313-314, 323-324) Life satisfaction (p. 325) Physical development (pp. 322-323) Sexuality (p. 323) Sleep (pp. 120-121) Stress and lack of control (p. 446) Suicide (pp. 502-503) Taste (p. 91) Vision (p. 77)



Contents

Preface

Same Except for the Treatment

A described some of a	!!	to Rule Out Chance	9
Acknowledgments	xxii	Generalizing the Experimental	
Topics Related to Human Diversity	xxv	Findings: Do the Findings Apply to Other Groups?	10
		Potential Problems in Experimental Research	10
		Advantages and Disadvantages of the Experimental Method	12
CHAPTER 1		Other Research Methods	13
		The Correlational Method: Discovering Relationships, Not Causes	13
Introduction to Psychology	xxvi	Psychological Tests: Assessing the Subject	15
		Some Considerations in Psychological	
		Research	16
		Replication of Psychological Studies:	
Descriptive Research Methods	3	Play it Again, Sam	16
Naturalistic Observation: Caught in		Human Subjects in Psychological	
the Act of Being Themselves	3	Research	16
Laboratory Observation: A More		The Use of Animals in Research	17
Scientific Look at the Subject	4	Ethics in Research: First and Foremost	18
The Case Study Method: Studying a		The History of Psychology: Exploring	
Few Subjects in Depth	4	Psychology's Roots	20
Survey Research: The Art of Sampling and Questioning	4	Wilhelm Wundt: The Founding of Psychology	20
The Experimental Method: Searching		Titchener and Structuralism:	
for Causes	7	Psychology's Blind Alley	21
Independent and Dependent Variables	8	Functionalism: The First American	
Experimental and Control Groups: The		School of Psychology	21

xvii

Control in the Experiment: Attempting

Behaviorism: Never Mind the Mind

22

Psychoanalysis: It's What's Down Deep That Counts	23	The Thalamus: Relay Station between Lower and Higher Brain Centers	45
Gestalt Psychology: The Whole Is		The Hypothalamus: A Master	13
Greater than the Sum of Its Parts	23	Regulator	45
Humanistic Psychology: Looking at		The Limbic System: Primitive Emotion	
Human Potential	25	and Memory	46
Psychology Today	26	The Cerebral Hemispheres	47
Modern Perspectives in Psychology:		The Lobes of the Brain	48
Current Views on Behavior and		Specialization of the Cerebral	
Thinking	26	Hemispheres	53
Psychologists at Work	27	Functions of the Left Hemisphere:	
■ WORLD OF PSYCHOLOGY:		Language, First and Foremost	53
APPLICATIONS—Sharpening Your		Functions of the Right Hemisphere:	
Study Skills	30	The Leader in Visual-Spatial Tasks	54
Thinking Critically	31	The Split Brain: Separate Halves or	
Chapter Summary and Review	32	Two Separate Brains?	56
		On Handedness, the Hemispheres,	
		Talents, and Problems	57
		■ WORLD OF PSYCHOLOGY:	
CHAPTER 2		APPLICATIONS—Discovering the	
		Brain's Mysteries	58
		The Many Faces of Brain Damage	60
Biology and Behavior		Stroke	61
	34	Head Injury	61
2 /1		Recovering from Brain Damage	61
		The Peripheral Nervous System	62
		The Somatic Nervous System: For	
The Neurons and Neurotransmitters	36	Sensing and Moving	62
The Neurons: Billions of Brain Cells	36	The Autonomic Nervous System:	
Neurotransmitters: The Chemical		Doing Its Job without Our	
Messengers of the Brain	38	Conscious Thought	62
The Rate of Neural Firing and the		The Endocrine System	64
Speed of the Impulse	41	The Pituitary Gland: The Master	(1
Glial Cells: The Neurons' Helper Cells	41	Gland, Small as a Pea	65
The Central Nervous System	42	The Thyroid Gland: Balancing the Body's Metabolism	66
The Spinal Cord: An Extension of the		The Adrenal Glands: Necessary for	00
Brain	42	Fight or Flight	66
The Brainstem: The Most Primitive		The Pancreas: Our Insulin Factory	66
Part of the Brain	43	The Sex Glands: The Gonads	66
The Cerebellum: A Must for Graceful		Thirking Critically	67
Movement	44	Chapter Summary and Review	68
		Chapter Julilliary and Review	0.0

Perception: Ways of Perceiving 97 The Gestalt Principles of Perceptual CHAPTER 3 Organization 97 99 Perceptual Constancy Sensation and Depth Perception: Perceiving What's Up Close and Far Away 101 Perception 70 Perception of Motion 102 Extraordinary Perceptions: Puzzling Perceptions 104 Attention and Perception 106 Sensation: The Sensory World 73 Factors That Affect Our Perceptions: The Absolute Threshold: To Sense or It's All Relative 106 Not to Sense 73 Subliminal Persuasion: Does It Work? 107 The Difference Threshold: Detecting Extrasensory Perception: Does It Exist? 107 Differences 73 Thinking Critically 109 Transduction: Transforming Sensory **Chapter Summary and Review** Stimuli into Neural Impulses 74 110 Vision 75 Light: What We See 75 The Eye: Window to the Visual Sensory World 76 CHAPTER Color Vision: A Multicolored World 80 Hearing 83 States of Sound: What We Hear 84 The Ear: More to It Than Meets the Consciousness 112 Eye 85 Theories of Hearing: How Hearing Works 87 Hearing Loss: Kinds and Causes 88 Circadian Rhythms: Our 24-hour Highs ■ WORLD OF PSYCHOLOGY: and Lows 114 APPLICATIONS—Noise and Hearing Jet Lag: Where Am I and What Time 89 Loss: Bad Vibrations 115 Smell and Taste 90 Shift Work: Working Day and Night 115 Smell: Sensing Scents 90 Sleep: That Mysterious One-Third of 91 Taste: What the Tongue Can Tell **Our Lives** 118 **Our Other Senses** 92 NREM and REM Sleep: Watching the The Skin: Information from Our 118 Natural Clothing 92 Sleep Cycles: The Nightly Pattern of Pain: Physical Hurts 93 119

95

96

The Kinesthetic Sense: Keeping Track

The Vestibular Sense: Sensing up and Down and Changes in Speed

of Our Body Parts

120

Variations in Sleep: How We Differ

Sleep Deprivation: How Does It Affect Us?	122	CHAPTER 5	
Dreaming: Mysterious Mental Activity			
While We Sleep	123	and the second s	
Sleep Disturbances and Disorders	126	Learning	150
Stage 4 Sleep Disturbances:		Learning	130
Sleepwalking and Night Terrors	126		
Other Sleep Disturbances	127		
Major Sleep Disorders	128		
■ WORLD OF PSYCHOLOGY:		Classical Conditioning	153
APPLICATIONS—Insomnia: Symptoms		Pavlov and Classical Conditioning	153
and Solutions	130	The Elements and Processes in	
Altering Consciousness through		Classical Conditioning	155
Concentration and Suggestion	131	John Watson, Little Albert, and Peter	159
Meditation: Relaxing Your Way to a		■ WORLD OF PSYCHOLOGY:	
Different Form of Consciousness	131	PIONEERS—John B. Watson	161
Hypnosis: Look into My Eyes	132	Classical Conditioning in Everyday Life	162
Altered States of Consciousness and		Factors Influencing Classical	
Psychoactive Drugs	135	Conditioning	162
Reasons for Taking Drugs: Many		Classically Conditioned Taste	
Reasons, No Good Ones	135	Aversions and Immune System	
Drug Dependence: Slave to a Substance	136	Responses	163
Stimulants: Speeding Up the Nervous		■ WORLD OF PSYCHOLOGY:	
System	137	APPLICATIONS—Solving Problems	
Hallucinogens: Seeing, Hearing, and	4.00	with Conditioned Taste Aversions	164
Feeling What Is Not There	139	Operant Conditioning	165
Depressants: Slowing Down the	1.41	Thorndike and the Law of Effect	165
Nervous System	141	Skinner and Operant Conditioning	166
■ WORLD OF PSYCHOLOGY:		■ WORLD OF PSYCHOLOGY:	
MULTICULTURAL PERSPECTIVES—The	1.12	PIONEERS—Burrhus Frederic Skinner	167
Use and Abuse of Alcohol	142	Reinforcement: What's the Payoff?	170
■ WORLD OF PSYCHOLOGY:		Punishment: That Hurts!	174
APPLICATIONS—Drugs in the		Escape and Avoidance Learning	176
Workplace	144	Factors Influencing Operant	
Designer Drugs: Laboratory Creations	146	Conditioning	176
Thinking Critically	147	Comparing Classical and Operant	
Chapter Summary and Review	147	Conditioning: What's the	
		Difference?	177
		Biofeedback: Observable Evidence of	199 <u>—</u> 140
		Internal (Biological) Processes	178
		Behavior Modification: Changing Our	4.70
		Act	179