

PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY

PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY FORM THE FOUNDATION FOR UNDERSTANDING THE INTRICATE RELATIONSHIP BETWEEN BIOLOGICAL PROCESSES AND BEHAVIOR. THIS BRANCH OF PSYCHOLOGY FOCUSES ON HOW THE BRAIN, NERVOUS SYSTEM, AND OTHER PHYSIOLOGICAL MECHANISMS INFLUENCE COGNITIVE FUNCTIONS, EMOTIONS, AND ACTIONS. BY INVESTIGATING NEURAL PATHWAYS, NEUROTRANSMITTERS, AND BRAIN STRUCTURES, PHYSIOLOGICAL PSYCHOLOGY BRIDGES THE GAP BETWEEN BIOLOGY AND PSYCHOLOGY, OFFERING INSIGHTS INTO MENTAL HEALTH, LEARNING, AND BEHAVIOR MODIFICATION. THE PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY ENCOMPASS VARIOUS TOPICS, SUCH AS NEURAL COMMUNICATION, SENSORY PROCESSING, AND THE BIOLOGICAL BASIS OF PSYCHOLOGICAL DISORDERS. THIS ARTICLE EXPLORES THESE FUNDAMENTAL PRINCIPLES IN DETAIL, HIGHLIGHTING THEIR SIGNIFICANCE IN BOTH RESEARCH AND CLINICAL APPLICATIONS. THE FOLLOWING SECTIONS WILL GUIDE READERS THROUGH THE CORE CONCEPTS, METHODOLOGIES, AND PRACTICAL IMPLICATIONS OF PHYSIOLOGICAL PSYCHOLOGY.

- FUNDAMENTAL CONCEPTS IN PHYSIOLOGICAL PSYCHOLOGY
- NEURAL COMMUNICATION AND BRAIN FUNCTION
- SENSORY SYSTEMS AND PERCEPTION
- BIOLOGICAL BASIS OF BEHAVIOR AND EMOTIONS
- APPLICATIONS AND RESEARCH METHODS IN PHYSIOLOGICAL PSYCHOLOGY

FUNDAMENTAL CONCEPTS IN PHYSIOLOGICAL PSYCHOLOGY

UNDERSTANDING THE PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY BEGINS WITH GRASPING ITS FUNDAMENTAL CONCEPTS. THIS FIELD EXAMINES HOW BIOLOGICAL SYSTEMS UNDERPIN PSYCHOLOGICAL PROCESSES BY EXPLORING THE ANATOMY AND PHYSIOLOGY OF THE NERVOUS SYSTEM. THE BRAIN, SPINAL CORD, AND PERIPHERAL NERVES FORM THE CENTRAL COMPONENTS RESPONSIBLE FOR PROCESSING INFORMATION AND PRODUCING BEHAVIOR. PHYSIOLOGICAL PSYCHOLOGY EMPHASIZES THE ROLE OF NEURONS, SYNAPSES, AND NEUROTRANSMITTERS IN TRANSMITTING SIGNALS THAT INFLUENCE COGNITION AND EMOTION. ADDITIONALLY, THE FIELD ACKNOWLEDGES THE PLASTICITY OF THE NERVOUS SYSTEM, WHICH REFERS TO ITS ABILITY TO ADAPT AND REORGANIZE IN RESPONSE TO EXPERIENCES AND ENVIRONMENTAL CHANGES.

NEURONS AND NEUROTRANSMITTERS

NEURONS ARE THE BASIC FUNCTIONAL UNITS OF THE NERVOUS SYSTEM, RESPONSIBLE FOR RECEIVING, PROCESSING, AND TRANSMITTING INFORMATION. EACH NEURON COMMUNICATES WITH OTHERS THROUGH SYNAPSES, WHERE NEUROTRANSMITTERS FACILITATE THE TRANSFER OF SIGNALS. THESE CHEMICAL MESSENGERS, SUCH AS DOPAMINE, SEROTONIN, AND ACETYLCHOLINE, PLAY CRITICAL ROLES IN REGULATING MOOD, ATTENTION, AND MOTOR CONTROL. THE BALANCE AND INTERACTION OF NEUROTRANSMITTERS DIRECTLY AFFECT PSYCHOLOGICAL STATES AND BEHAVIORS, ESTABLISHING A BIOLOGICAL FOUNDATION FOR MENTAL PROCESSES.

BRAIN STRUCTURES AND FUNCTIONS

THE BRAIN CONSISTS OF VARIOUS SPECIALIZED REGIONS, EACH CONTRIBUTING TO DIFFERENT ASPECTS OF BEHAVIOR AND COGNITION. THE PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY HIGHLIGHT KEY STRUCTURES SUCH AS THE CEREBRAL CORTEX, RESPONSIBLE FOR HIGHER-ORDER FUNCTIONS LIKE REASONING AND LANGUAGE; THE LIMBIC SYSTEM, CENTRAL TO EMOTION AND MEMORY; AND THE BRAINSTEM, WHICH CONTROLS VITAL AUTONOMIC FUNCTIONS. UNDERSTANDING THE INTERCONNECTIVITY AND ROLES OF THESE AREAS IS ESSENTIAL FOR COMPREHENDING HOW PHYSIOLOGICAL PROCESSES INFLUENCE PSYCHOLOGICAL PHENOMENA.

NEURAL COMMUNICATION AND BRAIN FUNCTION

NEURAL COMMUNICATION IS A CORNERSTONE OF PHYSIOLOGICAL PSYCHOLOGY, ENCOMPASSING THE MECHANISMS BY WHICH NEURONS TRANSMIT AND PROCESS INFORMATION. THE PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY DETAIL HOW ELECTRICAL IMPULSES, OR ACTION POTENTIALS, TRAVEL ALONG NEURONS AND HOW SYNAPTIC TRANSMISSION ALLOWS FOR COMPLEX NEURAL NETWORKS TO FORM. THIS COMMUNICATION UNDERLIES ALL COGNITIVE AND BEHAVIORAL FUNCTIONS, FROM REFLEXES TO CONSCIOUS THOUGHT.

ACTION POTENTIALS AND SYNAPTIC TRANSMISSION

AN ACTION POTENTIAL IS AN ELECTRICAL SIGNAL GENERATED BY A NEURON IN RESPONSE TO STIMULI. THIS RAPID DEPOLARIZATION AND REPOLARIZATION OF THE NEURONAL MEMBRANE ENABLE THE TRANSMISSION OF INFORMATION ACROSS LONG DISTANCES WITHIN THE NERVOUS SYSTEM. AT SYNAPSES, THE ARRIVAL OF AN ACTION POTENTIAL TRIGGERS THE RELEASE OF NEUROTRANSMITTERS, WHICH CROSS THE SYNAPTIC CLEFT AND BIND TO RECEPTORS ON THE POSTSYNAPTIC NEURON, THUS CONTINUING THE SIGNAL. THIS PROCESS IS FUNDAMENTAL TO LEARNING, MEMORY FORMATION, AND BEHAVIORAL RESPONSES.

NEUROPLASTICITY AND BRAIN ADAPTATION

NEUROPLASTICITY REFERS TO THE BRAIN'S ABILITY TO REORGANIZE ITS STRUCTURE AND FUNCTION IN RESPONSE TO INTERNAL AND EXTERNAL STIMULI. THIS ADAPTABILITY IS CRITICAL FOR LEARNING NEW SKILLS, RECOVERING FROM BRAIN INJURIES, AND ADJUSTING TO ENVIRONMENTAL CHANGES. PHYSIOLOGICAL PSYCHOLOGY STUDIES HOW SYNAPTIC STRENGTH CAN BE MODIFIED THROUGH PROCESSES LIKE LONG-TERM POTENTIATION AND DEPRESSION, WHICH ARE ESSENTIAL FOR MEMORY CONSOLIDATION AND COGNITIVE DEVELOPMENT.

SENSORY SYSTEMS AND PERCEPTION

THE PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY ALSO ENCOMPASS THE STUDY OF SENSORY SYSTEMS AND HOW ORGANISMS PERCEIVE THEIR ENVIRONMENT. SENSORY INPUT IS THE STARTING POINT FOR BEHAVIOR, AS IT PROVIDES THE BRAIN WITH INFORMATION ABOUT THE EXTERNAL AND INTERNAL WORLD. THIS SECTION EXAMINES HOW SENSORY SIGNALS ARE DETECTED, TRANSMITTED, AND INTERPRETED BY THE NERVOUS SYSTEM TO PRODUCE PERCEPTION.

VISUAL AND AUDITORY PROCESSING

VISUAL AND AUDITORY SYSTEMS ARE AMONG THE MOST EXTENSIVELY STUDIED SENSORY MODALITIES IN PHYSIOLOGICAL PSYCHOLOGY. THE EYES DETECT LIGHT WAVES, WHICH ARE CONVERTED INTO NEURAL SIGNALS BY PHOTORECEPTORS AND PROCESSED IN THE VISUAL CORTEX TO FORM IMAGES. SIMILARLY, THE EARS CAPTURE SOUND WAVES, WHICH ARE TRANSLATED INTO ELECTRICAL IMPULSES BY HAIR CELLS IN THE COCHLEA AND INTERPRETED BY AUDITORY BRAIN REGIONS. UNDERSTANDING THESE PROCESSES IS CRUCIAL FOR EXPLORING HOW SENSORY INFORMATION SHAPES BEHAVIOR AND COGNITION.

SOMATOSENSORY AND OTHER SENSORY MODALITIES

THE SOMATOSENSORY SYSTEM ENCOMPASSES TOUCH, TEMPERATURE, PAIN, AND PROPRICEPTION, PROVIDING ESSENTIAL FEEDBACK ABOUT THE BODY'S POSITION AND CONDITION. OTHER SENSORY MODALITIES INCLUDE TASTE, SMELL, AND VESTIBULAR SENSES, EACH WITH SPECIALIZED RECEPTORS AND NEURAL PATHWAYS. THE INTEGRATION OF SENSORY INFORMATION ALLOWS FOR ACCURATE PERCEPTION AND APPROPRIATE BEHAVIORAL RESPONSES, HIGHLIGHTING THE INTERPLAY BETWEEN PHYSIOLOGY AND PSYCHOLOGY.

BIOLOGICAL BASIS OF BEHAVIOR AND EMOTIONS

THE PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY EMPHASIZE THE BIOLOGICAL UNDERPINNINGS OF BEHAVIOR AND EMOTIONS, LINKING BRAIN ACTIVITY TO PSYCHOLOGICAL EXPERIENCES. THIS SECTION EXPLORES HOW PHYSIOLOGICAL MECHANISMS CONTRIBUTE TO MOTIVATION, EMOTIONAL REGULATION, AND BEHAVIORAL PATTERNS.

MOTIVATION AND REWARD SYSTEMS

MOTIVATION IS DRIVEN BY NEURAL CIRCUITS THAT REGULATE REWARD AND REINFORCEMENT. THE MESOLIMBIC DOPAMINE PATHWAY, OFTEN REFERRED TO AS THE BRAIN'S REWARD SYSTEM, PLAYS A CRITICAL ROLE IN DRIVING BEHAVIORS THAT PROMOTE SURVIVAL AND PLEASURE. DYSFUNCTIONS IN THIS SYSTEM ARE ASSOCIATED WITH ADDICTION AND OTHER PSYCHIATRIC DISORDERS, ILLUSTRATING THE IMPORTANCE OF PHYSIOLOGICAL PSYCHOLOGY IN UNDERSTANDING COMPLEX BEHAVIORS.

EMOTIONAL REGULATION AND THE LIMBIC SYSTEM

THE LIMBIC SYSTEM, INCLUDING STRUCTURES SUCH AS THE AMYGDALA AND HIPPOCAMPUS, IS CENTRAL TO EMOTIONAL PROCESSING AND REGULATION. THESE AREAS EVALUATE EMOTIONAL STIMULI, GENERATE AFFECTIVE RESPONSES, AND MODULATE MEMORY ENCODING BASED ON EMOTIONAL SIGNIFICANCE. THE PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY PROVIDE INSIGHT INTO HOW ALTERATIONS IN THESE SYSTEMS CAN LEAD TO MOOD DISORDERS AND AFFECTIVE DYSREGULATION.

APPLICATIONS AND RESEARCH METHODS IN PHYSIOLOGICAL PSYCHOLOGY

PHYSIOLOGICAL PSYCHOLOGY EMPLOYS VARIOUS RESEARCH METHODS AND HAS NUMEROUS PRACTICAL APPLICATIONS IN MEDICINE, PSYCHOLOGY, AND NEUROSCIENCE. THIS SECTION HIGHLIGHTS KEY TECHNIQUES AND THEIR CONTRIBUTIONS TO ADVANCING KNOWLEDGE IN THE FIELD.

RESEARCH TECHNIQUES IN PHYSIOLOGICAL PSYCHOLOGY

INVESTIGATIONS IN PHYSIOLOGICAL PSYCHOLOGY UTILIZE METHODS SUCH AS ELECTROPHYSIOLOGY, NEUROIMAGING, AND LESION STUDIES. ELECTROPHYSIOLOGICAL TECHNIQUES MEASURE ELECTRICAL ACTIVITY IN NEURONS, WHILE NEUROIMAGING TOOLS LIKE MRI AND PET SCANS ENABLE VISUALIZATION OF BRAIN STRUCTURES AND FUNCTIONS. LESION STUDIES, OFTEN CONDUCTED WITH ANIMAL MODELS, HELP IDENTIFY THE ROLES OF SPECIFIC BRAIN REGIONS BY OBSERVING BEHAVIORAL CHANGES FOLLOWING TARGETED DAMAGE.

CLINICAL AND THERAPEUTIC APPLICATIONS

UNDERSTANDING THE PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY INFORMS THE DIAGNOSIS AND TREATMENT OF NEUROLOGICAL AND PSYCHIATRIC DISORDERS. INTERVENTIONS SUCH AS PHARMACOTHERAPY, NEUROFEEDBACK, AND BRAIN STIMULATION TECHNIQUES ARE GROUNDED IN KNOWLEDGE ABOUT NEURAL MECHANISMS. THIS INTEGRATION OF PHYSIOLOGICAL PSYCHOLOGY WITH CLINICAL PRACTICE ENHANCES THERAPEUTIC OUTCOMES AND FOSTERS THE DEVELOPMENT OF PERSONALIZED MEDICINE APPROACHES.

- UNDERSTANDING NEURAL MECHANISMS THROUGH ADVANCED IMAGING
- DEVELOPMENT OF PHARMACOLOGICAL TREATMENTS TARGETING NEUROTRANSMITTERS
- USE OF BRAIN STIMULATION IN MOOD AND COGNITIVE DISORDERS
- BEHAVIORAL THERAPIES INFORMED BY NEURAL PLASTICITY PRINCIPLES

FREQUENTLY ASKED QUESTIONS

WHAT IS PHYSIOLOGICAL PSYCHOLOGY?

PHYSIOLOGICAL PSYCHOLOGY IS A BRANCH OF PSYCHOLOGY THAT STUDIES THE RELATIONSHIP BETWEEN PHYSIOLOGICAL PROCESSES AND BEHAVIOR, FOCUSING ON HOW THE BRAIN AND NERVOUS SYSTEM INFLUENCE THOUGHTS, EMOTIONS, AND ACTIONS.

WHAT ARE THE MAIN PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY?

THE MAIN PRINCIPLES OF PHYSIOLOGICAL PSYCHOLOGY INCLUDE UNDERSTANDING THE BRAIN-BEHAVIOR RELATIONSHIP, THE ROLE OF NEURAL MECHANISMS IN BEHAVIOR, THE INFLUENCE OF GENETICS AND ENVIRONMENT, AND THE USE OF EXPERIMENTAL METHODS TO STUDY PHYSIOLOGICAL PROCESSES.

HOW DOES PHYSIOLOGICAL PSYCHOLOGY DIFFER FROM BEHAVIORAL PSYCHOLOGY?

PHYSIOLOGICAL PSYCHOLOGY EMPHASIZES THE BIOLOGICAL BASES OF BEHAVIOR, FOCUSING ON NEURAL AND PHYSIOLOGICAL PROCESSES, WHEREAS BEHAVIORAL PSYCHOLOGY PRIMARILY STUDIES OBSERVABLE BEHAVIORS AND THEIR ENVIRONMENTAL DETERMINANTS WITHOUT NECESSARILY ADDRESSING UNDERLYING BIOLOGICAL MECHANISMS.

WHY IS THE PRINCIPLE OF LOCALIZATION OF FUNCTION IMPORTANT IN PHYSIOLOGICAL PSYCHOLOGY?

THE PRINCIPLE OF LOCALIZATION OF FUNCTION IS IMPORTANT BECAUSE IT SUGGESTS THAT SPECIFIC AREAS OF THE BRAIN ARE RESPONSIBLE FOR PARTICULAR FUNCTIONS OR BEHAVIORS, WHICH HELPS IN UNDERSTANDING BRAIN ORGANIZATION AND IN DIAGNOSING AND TREATING NEUROLOGICAL DISORDERS.

HOW DO PHYSIOLOGICAL PSYCHOLOGISTS STUDY BRAIN-BEHAVIOR RELATIONSHIPS?

PHYSIOLOGICAL PSYCHOLOGISTS USE METHODS SUCH AS BRAIN IMAGING (E.G., MRI, fMRI), ELECTROPHYSIOLOGICAL RECORDINGS, LESION STUDIES, AND ANIMAL EXPERIMENTS TO INVESTIGATE HOW BRAIN STRUCTURES AND NEURAL ACTIVITY CORRELATE WITH BEHAVIORS AND MENTAL PROCESSES.

WHAT ROLE DO NEUROTRANSMITTERS PLAY IN PHYSIOLOGICAL PSYCHOLOGY?

NEUROTRANSMITTERS ARE CHEMICAL MESSENGERS THAT TRANSMIT SIGNALS BETWEEN NEURONS, PLAYING A CRITICAL ROLE IN REGULATING MOOD, COGNITION, AND BEHAVIOR; UNDERSTANDING THEIR FUNCTION IS ESSENTIAL IN PHYSIOLOGICAL PSYCHOLOGY FOR EXPLAINING VARIOUS PSYCHOLOGICAL PHENOMENA AND DISORDERS.

HOW DOES THE PRINCIPLE OF NEUROPLASTICITY RELATE TO PHYSIOLOGICAL PSYCHOLOGY?

NEUROPLASTICITY, THE BRAIN'S ABILITY TO REORGANIZE AND FORM NEW NEURAL CONNECTIONS, IS A KEY PRINCIPLE IN PHYSIOLOGICAL PSYCHOLOGY AS IT EXPLAINS HOW EXPERIENCES, LEARNING, AND RECOVERY FROM INJURY CAN ALTER BRAIN FUNCTION AND BEHAVIOR.

WHAT ETHICAL CONSIDERATIONS ARE IMPORTANT IN PHYSIOLOGICAL PSYCHOLOGY RESEARCH?

ETHICAL CONSIDERATIONS INCLUDE ENSURING INFORMED CONSENT, MINIMIZING HARM AND DISTRESS TO PARTICIPANTS (ESPECIALLY

IN ANIMAL STUDIES), MAINTAINING CONFIDENTIALITY, AND CONDUCTING RESEARCH THAT HAS SCIENTIFIC MERIT AND POTENTIAL BENEFITS.

ADDITIONAL RESOURCES

1. *BIOLOGICAL PSYCHOLOGY: AN INTRODUCTION TO BEHAVIORAL, COGNITIVE, AND CLINICAL NEUROSCIENCE*

THIS COMPREHENSIVE BOOK EXPLORES THE BIOLOGICAL FOUNDATIONS OF BEHAVIOR, INTEGRATING INSIGHTS FROM NEUROSCIENCE, PSYCHOLOGY, AND PHYSIOLOGY. IT COVERS TOPICS SUCH AS NEURAL COMMUNICATION, SENSORY SYSTEMS, AND BRAIN FUNCTION IN HEALTH AND DISEASE. THE TEXT IS DESIGNED FOR STUDENTS AND PROFESSIONALS SEEKING AN IN-DEPTH UNDERSTANDING OF PHYSIOLOGICAL PSYCHOLOGY PRINCIPLES.

2. *PRINCIPLES OF NEURAL SCIENCE*

WIDELY REGARDED AS A FOUNDATIONAL TEXT, THIS BOOK DELVES INTO THE MECHANISMS UNDERLYING NEURAL FUNCTION AND THEIR RELATIONSHIP TO BEHAVIOR AND COGNITION. IT OFFERS DETAILED EXPLANATIONS OF NEURAL SIGNALING, BRAIN ANATOMY, AND NEUROPLASTICITY. THE BOOK IS ESSENTIAL FOR UNDERSTANDING HOW THE NERVOUS SYSTEM SUPPORTS PHYSIOLOGICAL AND PSYCHOLOGICAL PROCESSES.

3. *PHYSIOLOGICAL PSYCHOLOGY*

THIS TITLE PROVIDES A CLEAR OVERVIEW OF THE INTERACTIONS BETWEEN PHYSIOLOGICAL PROCESSES AND PSYCHOLOGICAL PHENOMENA. IT DISCUSSES BRAIN STRUCTURES, NEUROTRANSMITTERS, AND THE BIOLOGICAL BASES OF LEARNING, MEMORY, AND EMOTION. IDEAL FOR STUDENTS BEGINNING THEIR STUDY OF BEHAVIORAL NEUROSCIENCE AND PHYSIOLOGICAL PSYCHOLOGY.

4. *BEHAVIORAL NEUROSCIENCE*

FOCUSING ON THE BIOLOGICAL BASIS OF BEHAVIOR, THIS BOOK COVERS EXPERIMENTAL METHODS AND KEY CONCEPTS IN PHYSIOLOGICAL PSYCHOLOGY. IT EMPHASIZES THE RELATIONSHIP BETWEEN BRAIN FUNCTION AND BEHAVIOR IN BOTH HUMANS AND ANIMALS. THE TEXT INCLUDES UP-TO-DATE RESEARCH FINDINGS AND PRACTICAL APPLICATIONS.

5. *FOUNDATIONS OF PHYSIOLOGICAL PSYCHOLOGY*

THIS BOOK INTRODUCES FUNDAMENTAL CONCEPTS IN PHYSIOLOGICAL PSYCHOLOGY, INCLUDING NEUROANATOMY, NEUROPHYSIOLOGY, AND THE BIOLOGICAL UNDERPINNINGS OF COGNITION AND BEHAVIOR. IT INTEGRATES THEORY WITH EMPIRICAL STUDIES TO PROVIDE A HOLISTIC UNDERSTANDING OF MIND-BODY INTERACTIONS. SUITABLE FOR UNDERGRADUATE AND GRADUATE STUDENTS.

6. *NEUROPSYCHOLOGY: FROM THEORY TO PRACTICE*

THIS TEXT BRIDGES THE GAP BETWEEN PHYSIOLOGICAL PSYCHOLOGY AND CLINICAL PRACTICE, HIGHLIGHTING HOW BRAIN DISORDERS AFFECT COGNITIVE AND EMOTIONAL FUNCTIONS. IT DISCUSSES BRAIN-BEHAVIOR RELATIONSHIPS, ASSESSMENT TECHNIQUES, AND REHABILITATION APPROACHES. THE BOOK IS VALUABLE FOR STUDENTS AND PRACTITIONERS IN NEUROPSYCHOLOGY AND RELATED FIELDS.

7. *THE COGNITIVE NEUROSCIENCES*

A COLLECTION OF ESSAYS BY LEADING EXPERTS, THIS BOOK EXAMINES THE NEURAL BASES OF COGNITION, INCLUDING PERCEPTION, ATTENTION, MEMORY, AND LANGUAGE. IT INTEGRATES PHYSIOLOGICAL PSYCHOLOGY PRINCIPLES WITH COGNITIVE THEORY AND BRAIN IMAGING RESEARCH. THE VOLUME SERVES AS A CRUCIAL RESOURCE FOR ADVANCED STUDY IN BRAIN AND BEHAVIOR.

8. *BEHAVIORAL ENDOCRINOLOGY*

THIS BOOK EXPLORES THE INTERACTION BETWEEN HORMONES AND BEHAVIOR, FOCUSING ON PHYSIOLOGICAL PSYCHOLOGY ASPECTS OF ENDOCRINE INFLUENCES ON MOOD, STRESS, AND REPRODUCTION. IT COVERS EXPERIMENTAL METHODS AND CURRENT RESEARCH IN HORMONE-BEHAVIOR RELATIONSHIPS. THE TEXT PROVIDES INSIGHTS INTO THE BIOLOGICAL REGULATION OF BEHAVIOR.

9. *NEUROSCIENCE: EXPLORING THE BRAIN*

DESIGNED AS AN ACCESSIBLE INTRODUCTION, THIS BOOK COVERS THE STRUCTURE AND FUNCTION OF THE NERVOUS SYSTEM AND ITS ROLE IN BEHAVIOR AND MENTAL PROCESSES. IT EMPHASIZES PHYSIOLOGICAL MECHANISMS UNDERLYING SENSATION, MOVEMENT, AND COGNITION. THE RICHLY ILLUSTRATED TEXT IS SUITABLE FOR THOSE NEW TO PHYSIOLOGICAL PSYCHOLOGY AND NEUROSCIENCE.

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Physiological psychology deals with the interaction between 'under the skin' physiological variables and the personal and social context in which organisms live. Originally published in 1975, much of this book has relevance for the understanding of human action: knowledge of physiological mechanisms underlying psychological functions can throw light on conditions such as obesity, schizophrenia, and the emotional disorders, and on procedures such as psychosurgery and drug therapy.

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