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Autore	Marano, Antonio
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Nota di contenuto	Neural Engineering; Preface; Contents; Chapter 1: Introduction to Neurophysiology; 1 Overview of Neurons, Synapses, Neuronal Circuits, and Central Nervous System Anatomy; 1.1 Temporal and Spatial Facilitation; 1.2 Special Neural Circuits; 1.3 Reflexes; 1.4 Reflex Time; 2 Sensory Systems; 2.1 Properties of a Particular Stimulus; 2.2 Functional Organization of a Receptor; 2.3 The Relative Distributions of Receptors within the Human Body; 2.4 Sensory Input into Motor Systems; 3 Somatovisceral Sensibility; 3.1 Processing in the Central Nervous System; 3.2 Basic Anatomy of the Somatosensory System 3.2.1 Specific Pathways3.2.2 Nonspecific Pathways; 3.3 Somatosensory Projection Areas in the Cortex; 3.4 Mechanoreception; 4 General Anatomic and Functional Features of the Motor System; 4.1 Motor Control Hierarchy for Voluntary Movements; 4.2 Spinal Cord; 4.3 Brainstem Components; 4.4 Cerebellum; 4.5 Motor Cortex; 4.6 Efferent Connections from the Motor Cortex; 4.7 Basal Ganglia and Thalamus; 5 Maintenance of Upright Posture and Sense of Equilibrium; 5.1 Sense of Equilibrium; 5.1.1 Macula Organs; 5.1.2 Semicircular Canals; 5.1.3 Central Vestibular System; 5.1.4 Vestibular Reflexes 6 Complex Integrative Functions of the Motor System6.1 The Complex Motor Function of Speech; 6.2 Motoneuron Recruitment; 7 Pathophysiology of the Motor System; 7.1 Disorders of the Spinal Cord; 7.2 Disruption of Functions Within the Brainstem; 7.3 Disturbances Within the Cerebellum; 7.4 Disorders Within the Basal Ganglia; 7.5

Impairment Within the Motor Cortex; 8 The Autonomic Nervous System; 8.1 Sympathetic; 8.2 Parasympathetic; 8.3 Neurotransmitters in the ANS; 8.4 The Adrenal Medulla; 8.5 Central Organization of the ANS; 9 The Hypothalamus and Homeostasis
10 Regulation of Body Temperature: Thermoregulation 10.1 Core Temperature; 10.2 Cutaneous Thermoreception; 10.3 Central Thermoregulation; 11 The Limbic System and the Ascending Reticular Activating System; 11.1 Function of the Various Portions of the Reticular Activating System; 11.2 Brain Waves; 11.3 Sleep; 11.4 Mechanisms of Sleep; 12 Pain; 12.1 Intensity of Pain (Quantity); 13 Vision; 13.1 Functional Anatomy; 13.2 The Visual Focusing System; 13.3 Visual Receptor Cells; 13.4 The Receptor Transduction Process; 13.5 Eye Movements; 14 Sound and Hearing; 14.1 Functional Anatomy 14.2 Auditory Sensations 14.3 The Central Auditory System; 15 Taste and Smell; Additional Reading; Chapter 2: Brain-Computer Interfaces; 1 Introduction; 2 BCI Definition and Structure; 2.1 What is a BCI?; 2.2 Alternative or Related Terms; 2.3 The Components of a BCI; 2.4 The Unique Challenge of BCI Research and Development; 2.5 BCI Operation Depends on the Interaction of Two Adaptive Controllers; 2.6 Choosing Signals and Brain Areas for BCIs; 3 Signal Acquisition; 3.1 Invasive Techniques; 3.1.1 Intracortical; 3.1.2 Cortical surface; 3.2 Noninvasive Techniques; 3.2.1 EEG; 3.2.2 MEG; 3.2.3 fMRI
3.2.4 NIRS

Sommario/riassunto

Neural Engineering, 2nd Edition, contains reviews and discussions of contemporary and relevant topics by leading investigators in the field. It is intended to serve as a textbook at the graduate and advanced undergraduate level in a bioengineering curriculum. This principles and applications approach to neural engineering is essential reading for all academics, biomedical engineers, neuroscientists, neurophysiologists, and industry professionals wishing to take advantage of the latest and greatest in this emerging field.
