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Nota di contenuto	Front Cover; The Human Nervous System; Copyright Page; Contents; Contributors; Preface; SECTION 1: EVOLUTION AND DEVELOPMENT; Chapter 1. Brain Evolution; Historical Pattern of Vertebrate Brain Evolution; Developmental Mechanisms Underlying Brain Evolution; Evolution of Uniquely Human Brains; Conclusions; References; Chapter 2. Embryonic Development of the Central Nervous System; Developmental Stages and Ages; Areas with Special Inductive Influence; Neurulation; Neurocytogenesis; Development of the Neural Plate and Groove; The Brain from 4 to 6 Postfertilizational Weeks Some Individual Regions of the Brain Ventricles, Choroid Plexuses, and Circumventricular Organs; The Cerebral Arteries; Measurements; Summary; References; Chapter 3. Fetal Development of the Central Nervous System; Cerebral cortex; Deep Telencephalic Nuclei; Diencephalon; Midbrain; Cerebellum and Precerebellar Nuclei; Pons and

Medulla; Spinal Cord; Acknowledgment; References; Chapter 4. Development of the Peripheral Nervous System; Cranial Nerves; Somatic Peripheral Nervous System; Automatic and Enteric Nervous System; References; SECTION II: PERIPHERAL NERVOUS SYSTEM AND SPINAL CORD
Chapter 5. Peripheral Motor System Composition of Muscle Nerves; Muscle Receptors; Features of Muscle; Muscle Units and Motor Units; Acknowledgment; References; Chapter 6. Peripheral Autonomic Pathways; General Organization of Autonomic Pathways; Cranial Autonomic Pathways; Sympathetic Pathways; Pelvic Autonomic Pathways; Enteric Plexuses; Adrenal Medulla and Paraganglia; Concluding Remarks; Acknowledgments; References; Chapter 7. Spinal Cord: Cyto- and Chemoarchitecture; Cyto- and Dendroarchitecture; Chemoarchitecture; Myeloarchitecture; Acknowledgments; References
Chapter 8. Spinal Cord: Connections Propriospinal Pathways; Afferent Pathways; Efferent Pathways; References; Chapter 9. Spinal Cord in Relation to the Peripheral Nervous System; The Spinal Cord-Spinal Nerve Root Junction; Developmental Aspects; Experimental Studies of the Transitional Region; Brachial and Lumbosacral Plexuses; References; SECTION III: BRAINSTEM AND CEREBELLUM; Chapter 10. Organization of Human Brain Stem Nuclei; Autonomic Regulatory Centers; Reticular Formation; Tegmental Nuclei; Locus Coeruleus; Raphe Nuclei; Ventral Mesencephalic Tegmentum and Substantia Nigra Cranial Motor Nuclei Somatosensory System; Vestibular Nuclei; Auditory System; Visual System; Precerebellar Nuclei and Red Nucleus; Conclusion; References; Chapter 11. Cerebellum and Precerebellar Nuclei; External Form, Development, and Subdivision of the Human Cerebellum; Cerebellar Nuclei; Cerebellar Peduncles: Topography of Pathways from the Human Cerebellar Nuclei; Afferent Fiber Systems; The Vestibulocerebellum; Longitudinal Zonation of the Cerebellum; Acknowledgments; References; Chapter 12. Periaqueductal Gray; External Boundaries of the Periaqueductal Gray; Internal boundaries of the Periaqueductal Gray

Sommario/riassunto

This long-awaited update of the classic, *The Human Nervous System*, stands as an impressive survey of our knowledge of the brain, spinal cord, and peripheral nervous system. The book has been completely redone and brought up-to-date. An impressive and respected cast of international authors have contributed 37 chapters on topics ranging from Brain Evolution, all phases of Brain Development, to all areas of the adult brain and peripheral pathways, along with careful descriptions of the spinal cord and peripheral nervous system, brainstem and cerebellum.
