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Autore	Ma, Zhong-Qi
Titolo	Yang-Baxter Equation and Quantum Enveloping Algebras / Zhong-Qi Ma
Pubbl/distr/stampa	Singapore : World Scientific, 1993
ISBN	981-02-1383-2
Descrizione fisica	vii, 318 p. ; 22 cm
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2. Record Nr.	UNINA9910968560903321
Autore	Watson Charles
Titolo	The brain : an introduction to functional neuroanatomy / / Charles Watson, Matthew Kirkcaldie, George Paxinos
Pubbl/distr/stampa	Amsterdam, : Elsevier, 2010
ISBN	9786612878534 9781282878532 1282878530 9780080920481 0080920489
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Descrizione fisica	1 online resource (216 p.)
Altri autori (Persone)	KirkcaldieMatthew PaxinosGeorge
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Soggetti	Brain Neuroanatomy
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; The Brain: An introduction to FunctionalNeuroanatomy; Copyright Page; Dedication; Preface; Acknowledgments; Introduction; Table of contents; Chapter 1: Nerve cells andsynapses; Membrane potentials and action potentials; Neurons and their connections; Glia; Chapter 2: Central nervous system basics-the brain and spinalcord; Why study animal brains?; The main parts of the brain; External features of the brain; The language of brain anatomy; The spinal cord; Chapter 3: A map of thebrain; Mini-atlas of the rat brain; Chapter 4: Peripheralnerves; Motor and sensory nerves Somatic and visceral motor and sensory elementsSpinal nerves; Spinal nerves supplying thelimbs; Cranial nerves; Chapter 5: Command and control-the motorsystems; Command and control of skeletal muscles; Areas of the motor cortex; The role of non-cortical motor centers; Survival skills: thehypothalamus; Brainstem and spinal cord modules for control of organizedmovement; Descending control pathways other than the corticospinaltract; The role of the cerebellum in motor control; The roles of the striatum and pallidum in motorcontrol; The final

common pathway for all motor systems-the motor neuron
 Command and control of the viscera-the autonomic nervous system
 Command and control of the neuroendocrine system; Chapter 6: Gathering information-the sensory systems; Receptors; Keeping sensory maps intact; Interpretation and understanding; Sensory areas in the cerebral cortex; Vision; Hearing; Vestibular system; Taste; Smell; Sensory processing outside the cortex; An example: rolling an ankle; Chapter 7: The human cerebral cortex; The cerebral cortex-anatomy and histology; Guiding principles of cortical structure and function; The functional layout of the human cerebral cortex
 The cerebral cortex and behavior Chapter 8: Higher level functions-consciousness, learning, memory, and emotions; Consciousness; Memory; Sleep; Emotions and the amygdala; Chapter 9: When things go wrong-brain disease and injury; Infections of the brain and spinal cord; Multiple sclerosis; Parkinson's disease; Stroke (cerebrovascular accident); Alzheimer's disease and dementia; Epilepsy; Brain trauma and brain death; Mental illness; The tragic history of the treatment of severe mental illness; Chapter 10: The development of the brain and spinal cord; Genes and brain development
 Early development of the brain and spinal cord Regional development of the nervous system-segmentation and organizing centers; Formation of synapses; Environmental influences on gene expression; Critical periods; Later processes that refine the structure of the brain; Chapter 11: Techniques for studying the brain; Cutting thin sections of the brain; Staining brain sections; Cell culture; Histology: using tracers to map connections; Molecular genetics; Non-invasive imaging techniques; Functional imaging; Electrophysiology; Appendix A: Voltages, potentials, and cell membranes; Appendix B; Appendix C
 Supplementary reading

Sommario/riassunto

The authors of the most cited neuroscience publication, *The Rat Brain in Stereotaxic Coordinates*, have written this introductory textbook for neuroscience students. The text is clear and concise, and offers an excellent introduction to the essential concepts of neuroscience. Based on contemporary neuroscience research rather than old-style medical school neuroanatomy. Thorough treatment of motor and sensory systems. A detailed chapter on human cerebral cortex. The neuroscience of consciousness, memory, emotion, brain injury, and mental
