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Principles of Neural Science is widely considered the gold standard in neuroscience textbooks. It offers a comprehensive overview of the field covering a vast array of topics from cellular and molecular mechanisms to cognitive functions and neurodevelopmental disorders. Here's why this book is essential for anyone interested in the nervous system:

- Clear and Concise Explanations:** The authors present complex concepts in a way that's easy to understand, even for readers with limited background knowledge.
- Cutting-Edge Research:** The book covers the latest research findings in neuroscience, keeping you informed about the rapidly evolving field.
- Abundant Illustrations:** The text is enhanced with numerous diagrams, figures, and photographs that help to visualize complex concepts.
- Real-World Applications:** Principles of Neural Science explores the clinical implications of neuroscience, explaining how research findings translate into treatments for neurological disorders.

**Topics Covered in the Book:**

- Cellular and Molecular Neurobiology:** Explore the structure and function of neurons, synapses, and neurotransmitters.
- Sensory Systems:** Discover how our brain processes information from our senses, including vision, hearing, touch, smell, and taste.
- Motor Systems:** Learn about the neural mechanisms that control movement, coordination, and balance.
- Cognitive Neuroscience:** Dive into the workings of the brain's higher functions, such as memory, language, attention, and decision-making.
- Neurological Disorders:** Gain insights into the causes and treatments of conditions like Alzheimer's disease, Parkinson's disease, stroke, and epilepsy.

Dive into the World of Neuroscience with Kandel's Principles of Neural Science PDF. Principles of Neural Science by Kandel, Schwartz, and Jessell is a treasure trove of knowledge for anyone eager to unravel the mysteries of the brain. Whether you're a student, researcher, or simply fascinated by the human mind, this book will provide you with a thorough and engaging understanding of the nervous system. Don't forget to utilize the ethical and legal methods mentioned earlier to access your copy. Start your journey into the fascinating world of neuroscience today.

**Conclusion:** Principles of Neural Science by Kandel is a classic text that has helped shape the field of neuroscience for decades. By providing a comprehensive and accessible overview of the nervous system, the book has inspired countless individuals to delve into the mysteries of the brain. Whether you're a student, researcher, or simply curious about the human mind, this book is a valuable resource that will enrich your understanding of the complex and fascinating world of neuroscience.

**FAQs**

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principles of neural science 5e describes our current understanding of how the nerves brain and mind function from molecules and cells to anatomic structures and systems to senses and cognitive functions this comprehensive reference covers every aspect of neuroscience

the gold standard of neuroscience texts updated with hundreds of brand new images and fully revised content in every chapter doody s core titles for 2023 for more than 40 years principles of neural science has helped readers understand the link between the human brain and behavior as the renowned text has shown all behavior is an expression of neural activity and the future of both clinical neurology and psychiatry is dependent on the progress of neural science fully updated this sixth edition of the landmark reference reflects the latest research clinical perspectives and advances in the field it offers an unparalleled perspective on the the current state and future of neural science this new edition features unmatched coverage of how the nerves brain and mind function new chapters on the computational bases of neural circuits that mediate behavior brain machine interfaces decision making and consciousness new section on the neuroscientific principles underlying the disorders of the nervous system expanded coverage of the different forms of human memory highly detailed chapters on stroke parkinson s disease and multiple sclerosis 2 200 images including 300 new color illustrations diagrams radiology studies and pet scans principles of neural science sixth edition benefits from a cohesive organization beginning with an insightful overview of the interrelationships between the brain nervous system genes and behavior the text is divided into nine sections part i overall perspective provides an overview of the broad themes of neural science including the basic anatomical organization of the nervous system and the genetic bases of nervous system function and behavior part ii cell and molecular biology of cells of the nervous system examines the basic properties of nerve cells including the generation and conduction of propagated signaling part iii synaptic transmission focuses on the electrophysiological and molecular mechanism of synaptic transmission with chapters on neuronal excitability neurotransmitters and transmitter release part iv perception discusses the various aspects of sensory perception including how information from the primary organs of sensation is transmitted to and processed by the central nervous system part v movement considers the neural mechanisms underlying movement and examines a new treatment that addresses how the basal ganglia regulate the selection of motor actions and instantiate reinforcement learning part vi the biology of emotion motivation and homeostasis

examines the neural mechanisms by which subcortical areas mediate homeostatic control mechanisms emotions and motivation part vii development and the emergence of behavior looks at the nervous system from early embryonic differentiation to the formation and elimination of synapses part viii learning memory language and cognition expands on the previous section examining the cellular mechanisms of implicit and explicit memory storage as well as decision making and consciousness part ix explores the neural mechanisms underlying diseases and disorders of the nervous system including autism spectrum disorder epilepsy schizophrenia and anxiety

the field's definitive work from a nobel prize winning author 900 full color illustrations principles of neural science 5e describes our current understanding of how the nerves brain and mind function from molecules to anatomic structures and systems to cognitive function this comprehensive reference covers all aspects of neuroscience widely regarded as the field's cornerstone reference the fifth edition is highlighted by more than 900 full color illustrations the fifth edition has been completely updated to reflect the tremendous amount of new research and development in neuroscience in the last decade lead author eric kandel was awarded the nobel prize in physiology or medicine in 2000

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