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| 1. Record Nr. | UNINA9910813042003321 |
| Autore | Postle Bradley R |
| Titolo | Essentials of Cognitive Neuroscience |
| Pubbl/distr/stampa | Hoboken : , : John Wiley & Sons, Incorporated, , 2015 ©2014 |
| ISBN | 1-118-46827-9 1-118-46826-0 1-118-46806-6 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (610 pages) |
| Disciplina | 612.8/233 |
| Soggetti | Cognitive neuroscience Clinical neuropsychology |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Intro -- Title Page -- Copyright Page -- Brief Contents -- Contents -- Preface -- Acknowledgments -- Methodology Boxes -- Walk Through of Pedagogical Features -- Companion Website -- Section I The Neurobiology of Thinking -- Introduction to Section I The Neurobiology of Thinking -- COGNITIVE NEUROSCIENCE? OR "HUMAN NEUROSCIENCE"? OR "NEUROSCIENCE-WITH-DIRECT IMPLICATIONS-FOR-UNDERSTANDING-HUMAN-BEHAVIOR"? -- Chapter 1 Introduction and History -- KEY THEMES -- TIMELINE: NINETEENTH- AND TWENTIETH-CENTURY ORIGINS OF COGNITIVE NEUROSCIENCE -- A BRIEF (AND SELECTIVE) HISTORY -- Localization of function vs. mass action -- The first scientifically rigorous demonstrations of localization of function -- WHAT IS A BRAIN AND WHAT DOES IT DO? -- LOOKING AHEAD TO THE DEVELOPMENT OF COGNITIVE NEUROSCIENCE -- END-OF-CHAPTER QUESTIONS -- REFERENCES -- OTHER SOURCES USED -- FURTHER READING -- Chapter 2 The Brain -- KEY THEMES -- PEP TALK -- GROSS ANATOMY -- The cerebral cortex -- THE NEURON -- Electrical and chemical properties of the neuron -- Neuroanatomical techniques exploit the physiology of the neuron -- OSCILLATORY FLUCTUATIONS IN THE MEMBRANE POTENTIAL -- Neurons are never truly "at rest" -- Synchronous oscillation -- COMPLICATED, AND |

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Sommario/riassunto

Essentials of Cognitive Neuroscience guides undergraduate and early-stage graduate students with no previous neuroscientific background through the fundamental principles and themes in a concise, organized, and engaging manner. Provides students with the foundation to understand primary literature, recognize current controversies in the field, and engage in discussions on cognitive neuroscience and its future. Introduces important experimental methods and techniques integrated throughout the text. Assists student comprehension through four-color images and thorough pedagogical resources throughout the text. Accompanied by a robust website with multiple choice questions, experiment videos, fMRI data, web links and video narratives from a global group of leading scientists for students. For Instructors there are sample syllabi and exam questions.
