1. Record Nr. UNINA9910974208003321

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Titolo	Memory and brain / / Larry R. Squire
Pubbl/distr/stampa	New York, : Oxford University Press, 1987
ISBN	1-281-34665-9 0-19-802121-6
Edizione	[1st ed.]
Descrizione fisica	xii, 315 p. : ill
Disciplina	153.1/2
Soggetti	Memory - Physiological aspects Brain
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliography and indexes.
Nota di contenuto	Intro -- Contents -- 1. Definitions: From Synapses to Behavior -- 2. Memory as Synaptic Change -- Connections versus Molecular Codes -- Neurons versus Synapses -- The Nature of the Synaptic Change -- 3. Memory and the Developing Nervous System -- Competition -- Remembering and Forgetting -- 4. Modulation of Memory -- Modulatory Systems -- Norepinephrine and Memory -- Acetylcholine -- Hormones -- Modulation of Memory: One or Many Effects? -- 5. Localized and Distributed Memory Storage -- History of the Problem -- The Nonlocalizing Brain Lesion -- Nonlocalizing Signs from Neurophysiology -- Memory as a Hologram -- Distributed Models of Memory in Cognitive Psychology -- Localizationist and Distributed Accounts of Memory Reconciled -- Searching for Functionally Equivalent Neural Units -- 6. The Penfield Studies -- The Observations -- Interpretation of the Penfield Studies -- Recent Findings -- 7. Searching for Engrams: Simple Learning -- Habituation: The Acoustic Startle Reflex -- Habituation: The Vestibulo-Ocular Reflex -- Classical Conditioning -- Heart-rate Conditioning -- Conditioning of the Nictitating Membrane/Eyeblink Response -- Imprinting -- 8. Searching for Engrams: Complex Learning -- Brightness Discrimination -- Arguments for Cortical Memory Storage -- Split-brain Studies -- Plasticity of Cortical Neurons -- Inferotemporal Cortex: Visual Processing and Visual Memory Storage -- Where Is Memory Stored? --

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Sommario/riassunto

Written by a leading neuropsychologist, this book brings together widely scattered psychological and neurobiological research on memory to create a definitive overview of current knowledge, proceeding from the synapse to a review of the function and structure of neural systems and the organization of cognition.