

1. Record Nr.	UNINA9910830294803321
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Titolo	Human memory modeled with standard analog and digital circuits [[electronic resource]] : inspiration for man-made computers / / John Robert Burger
Pubbl/distr/stampa	Hoboken, : Wiley, c2009
ISBN	1-282-27902-5 9786612279027 0-470-46425-9 0-470-46419-4
Edizione	[1st edition]
Descrizione fisica	1 online resource (384 p.)
Disciplina	612.8/23312 612.823312
Soggetti	Memory - Computer simulation Artificial intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
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Sommario/riassunto

Gain a new perspective on how the brain works and inspires new avenues for design in computer science and engineering This unique book is the first of its kind to introduce human memory and basic cognition in terms of physical circuits, beginning with the possibilities of ferroelectric behavior of neural membranes, moving to the logical properties of neural pulses recognized as solitons, and finally exploring the architecture of cognition itself. It encourages invention via the methodical study of brain theory, including electrically reversible neurons, neural networks, associative me