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The Computational Beauty of Nature is not, however, simply a textbook; rather, it is a labor of love. This unusual book crackles with excitement and runs deep with thoughtfulness. The topics that it covers and the connections that it makes are fascinating, and the presentation is clear and lively. The writing style is precise and evoca-

Review of The Computational Beauty of Nature

Abstract. Retrieval can render memories labile, allowing them to be modified or erased by behavioral or pharmacological intervention. This phenomenon, known as reconsolidation, defies explanation in terms of classical associative learning theories, prompting a reconsideration of basic learning mechanisms in the brain.

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We develop a computational theory that begins to address these questions. Central to our theory is the idea that memory is inferential in nature: Decisions about when to modify an old memory or form a new memory are guided by inferences about the latent causes of sensory data (Gershman et al., 2010, 2014, 2015).

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