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Perceptual experience emerges from neural computations. Unconscious Memory Representations in Perception focuses on the role of implicit (non-conscious) memories in processing sensory information. Making sense of the wealth of information arriving at our senses requires implicit memories, which represent environmental regularities, contingencies of the sensory input, as well as general contextual knowledge. Recent findings and theories in cognitive and computational neuroscience provided new insights into the structure and contents of implicit memory representations. The chapters of this book examine implicit memories both in relatively simple situations, such as perceiving auditory and visual objects, as well as in highlevel cognitive functions, such as speech and music perception and aesthetic experience. By nature, implicit memories cannot be directly studied with behavioral methods. Therefore, a large part of the evidence reviewed was obtained in neuroscientific studies. Readers with limited experience in neuroscience will find information about the most commonly used techniques in the appendix of this volume. (Series B).
