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Nota di contenuto	Contents; Foreword; Contributors; Chapter 1. Introduction: Filling-In: More Than Meets the Eye; Part I: Fast-Acting Filling-In in Normal Vision; Chapter 2. Filling-In the Forms: Surface and Boundary Interactions in Visual Cortex; Chapter 3. Contextual Shape Processing in Human Visual Cortex: Beginning to Fill-In the Blanks; Chapter 4. Surface Completion: Psychophysical and Neurophysiological Studies of Brightness; Chapter 5. Mechanisms of Surface Completion: Perceptual Filling-In of Texture; Chapter 6. Searching for the Neural Mechanism for Color Filling-In Chapter 7. Effects of Modal versus Amodal Completion Upon Visual Attention: A Function for Filling-In?Chapter 8. Completion Phenomena in Vision: A Computational Approach; Part II: From Permanent Scotomas to Cortical Reorganization; Chapter 9. Completion Through a Permanent Scotoma: Fast Interpolation Across the Blind Spot and the Processing of Occulsion; Chapter 10. The Reactivation and Reorganization of Retinotopic Maps in Visual Cortex of Adult Mammals

After Retinal and Cortical Lesions; Chapter 11. The Blind Leading the Mind: Pathological Visual Completion in Hemianopia and Spatial Neglect

Part III: Long-Term Cortical RemappingChapter 12. Plasticity of the Human Auditory Cortex; Chapter 13. Plasticity in Adult M1 Cortex During Motor Skill Learning; Chapter 14. Cortical Reorganization and the Rehabilitation of Movement by CI Therapy After Neurological Injury; Chapter 15. Conclusion: Contributions of Inhibitory Mechanisms to Perceptual Completion and Cortical Reorganization; Index; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; Q; R; S; T; U; V; W; Y; Z

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Sommario/riassunto

The best example of filling-in involves the blind spot, a region of the retina devoid of photoreceptors. Remarkably, the region of visual space corresponding to the blind spot is not perceived as a dark region in space, but instead as having the same colour and texture as the surrounding background; hence the expression "filling in." While this type of perceptual completion phenomenon is common in the visual domain, it is argued by the leading scientists who contribute to this book that forms of filling-in also take place in other sensory modalities, including the auditory, somatosensory, an

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