Perceptual Learning (MIT Press)

From A Bradford Book
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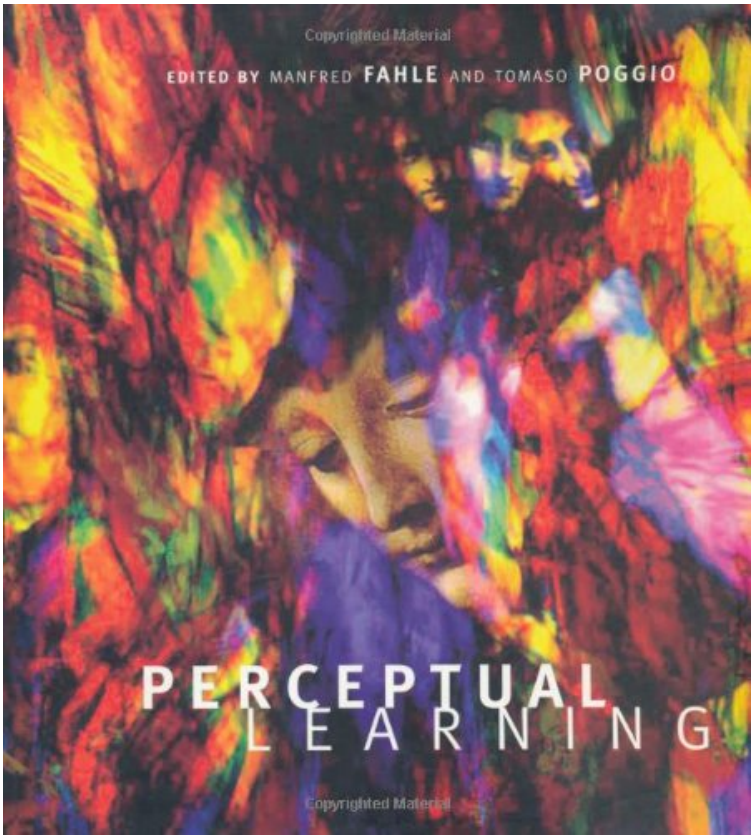

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From A Bradford Book : Perceptual Learning (MIT Press) before purchasing it in order to gage whether or not it would be worth my time, and all praised Perceptual Learning (MIT Press):

An overview of the field of perceptual learning -- the study of the permanent changes in cortical structure caused by external stimuli.Perceptual learning is the specific and relatively permanent modification of perception and behavior following sensory experience. It encompasses parts of the learning process that are independent from conscious forms of learning and involve structural and/or functional changes in primary sensory cortices. A familiar example is the treatment for a "lazy" or crossed eye. Covering the good eye causes gradual improvement in the weaker eye's cortical representations. If the good eye is patched too long, however, it learns to see less acutely.This book presents advances made in the last decade in this rapidly growing field. The first part examines neuronal changes caused by lesions or external influences. It discusses the effects of these changes on behavior and the extent to which plasticity in sensory systems is possible. Taking a broader view, the second part looks at how more conscious or systemic stimuli cause cortical changes. Clinical trials in which subjects are taught to recognize visual and auditory stimuli demonstrate the relationship between perceptual and cognitive learning. The final sections offer general models of perceptual learning

and discuss the future of the field.

About the AuthorManfred Fahle is Head of the Institute of Brain Research IV and the Unit for Human Neurobiology at the University of Bremen and a Visiting Professor at University College London, Institute of Ophthalmology.