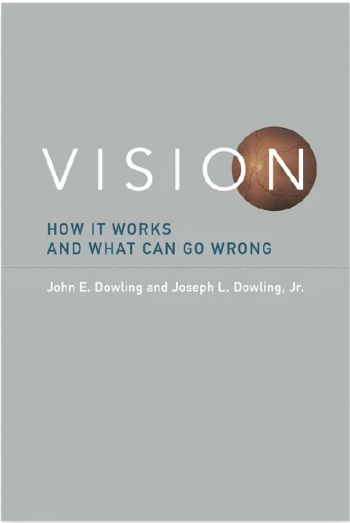




Vision

How It Works and What Can Go Wrong

By John E. Dowling and Joseph L. Dowling Jr.

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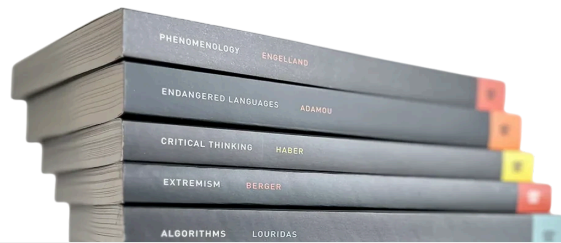


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The authors begin with the cornea and lens, which project an image on the light-sensitive elements inside the eye, the photoreceptors, and how that process can be compromised by such disorders as cataracts and corneal disease. They go on to describe, among other things, how the photoreceptors capture light; retinal and visual cortical anatomy and physiology; and higher level visual processing that leads to perception. Cortical disorders such as amblyopia are discussed as well as specific deficits such as the inability to recognize faces, colors, or moving objects. Finally, they survey the evolution of our knowledge of vision, and speculate about future advances.

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