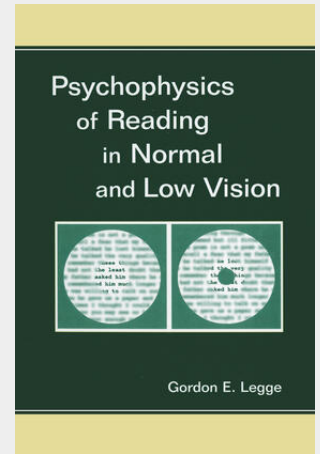


Legge

Psychophysics of Reading in Normal and Low Vision

Written by a leader in the field of low vision research, this book discusses the role of vision in reading, focusing on the reading performance of people with normal, healthy vision and people with impaired vision. The author describes the influence of physical properties of text on reading performance and the implications for information processing in the visual pathways. Providing an overview of seminal research, this book explores: different forms of low vision that affect reading, text characteristics that optimize reading for those with low vision, and principles underlying the legibility of text and guidelines for displaying text. Special topics include the role of the magnocellular pathway in reading and dyslexia, Braille reading, and fonts for highway signs. An accompanying CD contains reprints of the seminal series of articles by Gordon E. Legge and colleagues on the psychophysics of reading in normal and low vision, published between 1985 and 2001. This volume will be of interest to researchers and professionals in the area of low vision, including graphics engineers, HCI scientists, human factors specialists, low-vision rehabilitation specialists, ophthalmologists, occupational therapists, special education teachers, as well as cognitive scientists and perceptual psychologists. It is also suitable for advanced students with a background in the topic.



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