



Age-related Dynamic Visual Accommodation

By Wen Shi

VDM Verlag Aug 2010, 2010. Taschenbuch. Book Condition: Neu. 220x150x10 mm. Neuware - Visual accommodation plays a critical role in one's visual perception and activities of daily living. The age-related accommodation loss poses a greater risk to older adults' safety and independence. Although extensive effort has been made to study the effects of aging on accommodation, the relationship between aging and the dynamic aspects of accommodation is still unknown. Furthermore, since light is the carrier of external stimuli for accommodation, it is of value to assess the influences of light on the age-related accommodation loss. Therefore, a study was conducted to investigate the age-related dynamic accommodative characteristics under various conditions of the intensity and chromaticity of light. It was found that the advancing of age, the decrease of light intensity, and the change of light chromaticity all led to the alteration of one's dynamic accommodative performance. This study concluded with a biomechanical and neural model elaborating the mechanism of an accommodation process, as well as a visual display design guideline to compensate the age-related accommodation loss. 172 pp. Englisch.



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