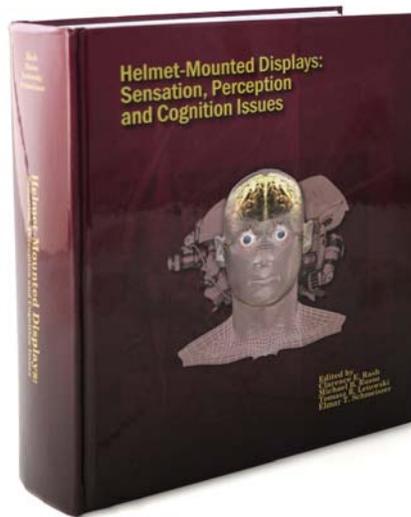




U.S. Army Aeromedical
Research Laboratory
Fort Rucker, Alabama

Helmet-Mounted Displays



Sensation, Perception
and
Cognition Issues



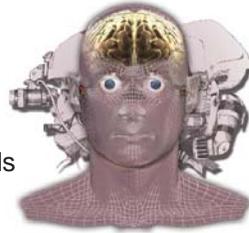
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Helmet-Mounted Displays

Sensation, Perception and Cognition Issues

Helmet-mounted displays (**HMDs**) continue to find expanded applications in the military community. They are central to a number of advanced systems for the mounted and dismounted warfighter used in training and combat. While considerable emphasis has been placed on **HMD** engineering design issues, there exists a gap in understanding the perceptual and cognitive issues associated with the use of **HMDs**. This comprehensive compilation reviews the important role of **HMDs** in the military operational environment, and presents detailed discussion of the human visual and auditory systems as they relate to **HMD** design.

This multidisciplinary approach brings together a variety of expert perspectives from the fields of psychology, medicine, and engineering, forming a comprehensive and user-friendly reference tool.



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