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By Mordekhai Velger

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A design practitioner's study of helmet-mounted display and sight technology (HMD/HMS), with a combination of advanced optics, computing, and electronics that gives users a continuous, hands-free display of computer, 3D, or virtual imaging. The text takes a look at this increasingly popular technology - from the human factors associated with the use of HMDs, to design requirements of HMD/HMS, to new and future advances in image source and display technology. HMD/HMS engineers should find this guide valuable, as it offers practical advice on evaluating various designs and technologies, selecting appropriate image sources, and designing helmet display systems that are more "human friendly". The text also provides techniques and algorithms for computing and implementing head position and for stabilising display images.

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Bibliography

- Rank: #3843359 in eBooks
- Published on: 1998-04-30
- Released on: 1998-04-30
- Format: Kindle eBook



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Editorial Review

About the Author

Mordekhai Velger is head of the control engineering section of ELOP Electro Optics Industries, Israel, where he has been actively involved in the design and development of an advanced HMD/HMS system. He holds a D.Sc. in Aerospace Engineering from the Technion-Israel Institute of Technology. Dr. Velger has published nearly 30 technical papers and holds two patents.

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