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Displays: Fundamentals and Applications

Rolf R. Hainich, Oliver Bimber

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In the last decade, new displays have been developed at an ever-increasing pace: bulky cathode ray tubes have been replaced by flat panels and mobile phones, tablets, and navigation systems have proliferated. Seeing this explosion raises tantalizing questions about the future evolution of visual displays:

- *Will printed displays be sold by the square yard and glued to the wall?*
- *Will disposable displays, powered by printed batteries and with built-in storage chips, talk to us from cereal boxes?*
- *Will we begin wearing display glasses that simulate any kind or number of virtual displays we would ever need?*
- *Will chip implants directly interface to our brains, eliminating the need for any displays at all?*

These and other questions are explored in **Displays: Fundamentals & Applications**, which describes existing and emerging display technology. The book begins by presenting the basics of wave optics, geometric optics, light modulation, visual perception, and display measures, along with the principles of holography. It then describes the technology and techniques behind projection displays, projector-camera systems, stereoscopic and autostereoscopic displays, computer-generated holography, and near-eye displays. In addition, the authors discuss how real-time computer graphics and computer vision enable the visualization of graphical 2D and 3D content. The text is complemented by more than 400 rich illustrations, which give readers a clear understanding of existing and emerging display technology.

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Jonathan Scott:

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