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Handbook of Visual Display Technology

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About the Book

The Handbook of Visual Display Technology is a unique work offering readers a comprehensive review of all aspects of the science, technology, economic, and human interface factors associated with visual displays. An invaluable compilation of information, the Handbook will serve as a single reference source with expert contributions from over 150 international display professionals and academic researchers. The broad scope encompasses the complete range of established and emergent display technologies, including LCDs, reflective displays, and emissive devices such as OLEDs and plasma displays. Across the Handbook and within each section the content builds from the fundamental physical principles involved, ensuring that the work is entirely self-contained, although the reader is provided with references to primary literature, reviews, and other works for further background.

Novel technologies such as electronic ink and flexible displays are discussed in detail and set in the context of their particular applications, and key sections are devoted to high-definition and 3-dimensional displays, portable and personal displays, and peripheral subjects such as display driving and display metrology. The wide-ranging content also encompasses the fundamental science of light and vision, electronic image processing and manipulation, and core materials processing and patterning techniques.

The Handbook concludes with a section focusing on the economics and market factors associated with the displays industry, with commentary on the prospects for particular technologies and areas of application.

USPs

- First and only reference work in the field, written by the leading academic and industrial researchers in the field
- Completely comprehensive, one-stop resource to cutting edge technologies
- Extensive cross-referencing throughout
- Covers established and emergent display technologies, including organics and 3D technologies
- Also addresses human interaction and economic factors
- International authorship