Handbook of Visual Display Technology

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Abstrak

The third edition of the remarkable Handbook of Visual Display Technology offers readers a comprehensive overview of the science and technology of visual displays and the economic and human interface factors associated with the displays industry. Unique in the displays field, the Handbook serves as a single reference source with expert contributions from over 150 international display professionals and academic researchers.

The Handbook contains extensive coverage of established and emerging display technologies, with discussion of physical principles, materials science and processing, device technologies and particular areas of application. The wide-ranging content also encompasses the fundamental science of light and vision, image acquisition and manipulation, display materials and processing techniques, TFTs, display driving and metrology. Prominence is given to liquid crystal displays, with later chapters devoted to emerging technologies including flexible displays, electrophoretic, electrowetting and electrofluidic displays and MEMS-based displays. Other sections consider 3D display solutions, projection systems and head-worn displays.

Updated and extended throughout, the third edition has been extensively reorganized and expanded with new material on micro-LEDS and OLEDs, inorganic semiconductor TFT technology, foldable displays, other emerging display technologies, augmented reality, virtual reality, and mixed reality, and market considerations.

"...no engineering or science library can be without this book. It will be an asset for all companies engaged in display and display-related business." – extract from the Foreword of the 1st Edition by Dr M Anandan, President, Society for Information Display.