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Digital Signal Processing in Experimental Research Introduction to Digital Holography

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About the ebook

This Ebook is a collection of comprehensive and cutting edge articles written by leading experts on digital signal and image processing. It covers all the basic aspects of digital synthesis and numerical reconstruction of holograms, beginning from digital holographic transforms. It also offers a comprehensive review of image digital processing methods most relevant to digital holography.

Contents

- ▶ Foreword (Survival of Holography provided by Signal Processing)
- ▶ Principles of Holography
- ▶ Holographic Transforms in Digital Computers
- ▶ Digital Recording and Numerical Reconstruction of Holograms
- ▶ Computer Generated Holograms (CGH): Principles
- ▶ Hologram Encoding for Recording on Physical Media
- ▶ Optical Reconstruction of Computer-Generated Holograms

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