Ultra-Realistic Imaging: Advanced Techniques in Analogue and Digital Colour Holography (Hardback)

By Hans I. Bjelkhagen, David Brotherton-ratcliffe

Taylor Francis Inc, United States, 2013. Hardback. Condition: New. Language: English . Brand New Book. Ultra-high resolution holograms are now finding commercial and industrial applications in such areas as holographic maps, 3D medical imaging, and consumer devices. Ultra-Realistic Imaging: Advanced Techniques in Analogue and Digital Colour Holography brings together a comprehensive discussion of key methods that enable holography to be used as a technique of ultra-realistic imaging. After a historical review of progress in holography, the book: Discusses CW recording lasers, pulsed holography lasers, and reviews optical designs for many of the principal laser types with emphasis on attaining the parameters necessary for digital and analogue holographyGives a full review of current photosensitive materials for colour holographyCovers modern methods of analogue holography and digital holographic printingIntroduces mathematical and geometrical notation for horizontal parallax-only holograms and practical computational algorithms for the full-parallax caseReviews systems and the image processing algorithms required to convert the raw image data to the format required by digital printersDevelops the physical theory of the holographic grating and the hologramProvides an up-to-date review of illumination sources, including LED and laser diode sources Written by leaders in dynamic holography, this handbook provides complete coverage of real-time colour holographic processes,...

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