



# Three-Dimensional Imaging Techniques

*Takanori Okoshi*

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## **Three-Dimensional Imaging Techniques** Takanori Okoshi

Three-Dimensional Imaging Techniques provides an overview of the development and practical applications of three-dimensional imaging techniques. This text deals with holographic and nonholographic techniques, with a focus on efficiency, speckle noise, resolution, white-light reconstruction, white-light recording, and color holography.

This book is comprised of nine chapters, wherein Chapter 1 provides a brief history of information media in human society. Chapter 2 presents the history of depth perception and the principle of the Wheatstone stereoscope, and Chapter 3 examines the construction of human eyes as the most important source of depth perception. Chapter 4 focuses on the optimum design of lens-sheet pictures, whereas Chapters 5 and 6 examine the technical drawbacks that limit the versatility in three-dimensional imaging technology. The features of holographic techniques, such as holographic stereoscreens and computer-generated holograms, are discussed in Chapters 7 and 8. Finally, Chapter 9 discusses the possible classifications based on applications, including microscopy, television, X-ray imaging, movies, and acoustical imaging. This book is intended for electronic engineers, researchers, and readers who are interested in the field of three-dimensional imaging.

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