



Introduction to Holography

Vincent Toal

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Over the course of its 60-year history, holography has enabled new insights into the nature of light and has contributed to innovative applications, including many unrelated to optics. **Introduction to Holography** explains how to use holographic techniques to solve specific problems in a variety of fields. The text focuses on the state of development of existing and emerging holographic applications. Numerical problems are provided at the end of each chapter.

After a review of essential optics, the book presents basic holographic principles. It introduces the theory of thick holograms, along with a less demanding and more insightful path to important results based on the work of Jacques Ludman. Examining the use of holography in practice, the author then describes the conditions for successful holography in the laboratory, including various lasers commonly used for holography. He also discusses recording materials and their key holographic characteristics. The final portion of the book deals with applications of holography, including imaging, holographic interferometry, holographic optical elements, and data storage. The text also explores digital and computer-generated holography, light-in-flight and first-arriving light techniques and their applications, polarization holography, and holography for sensing applications.

Since its invention in 1948, holography has evolved into a mature technology with a wide range of applications. This practical guide to the field offers a comprehensive survey of contemporary holographic techniques and applications.

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