1. Record Nr. UNINA9910647501103321

Titolo	Holography : recent advances and applications / / edited by Joseph Rosen
Pubbl/distr/stampa	London : , : IntechOpen, , [2023] ©2023
Descrizione fisica	1 online resource (396 pages) : illustrations
Disciplina	621.3675
Soggetti	Holography
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
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Sommario/riassunto

Holography of today is a broad field developed in the meeting between optics and the digital world of computers. A hologram usually contains more or different information on the observed scene than a regular image of the same scene. The development of the field has been accelerated lately due to the improvement of digital cameras, computers, light sources, and spatial light modulators. As a multidisciplinary area, holography connects experts in electro-optical engineering, image processing, and computer algorithms. More experts are needed when holography is utilized in various applications such as microscopy, industrial inspection, biomedicine, and entertainment. This book provides an overview of the world of holography from the aspect of concepts, system architectures, and applications.