

1. Record Nr.	UNINA9911006627703321
Autore	Nikolova L (Ludmila)
Titolo	Polarization holography / / L. Nikolova, P.S. Ramanujam
Pubbl/distr/stampa	Cambridge, : Cambridge University Press, 2009
ISBN	1-107-18960-8 1-282-18709-0 9786612187094 0-511-54050-7 0-511-53914-2 0-511-54084-1 0-511-53831-6 0-511-58148-3 0-511-53768-9 0-511-53998-3
Descrizione fisica	1 online resource (xv, 239 pages) : digital, PDF file(s)
Altri autori (Persone)	RamanujamP. S., Prof
Disciplina	621.3675
Soggetti	Holography Polarization interferometers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 24 Feb 2016).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Light propagation through polarizing systems -- Theory of polarization holography -- Azobenzene and azobenzene-containing polymers -- Other photoanisotropic materials -- Applications of polarization holography.
Sommario/riassunto	Current research into holography is concerned with applications in optically storing, retrieving, and processing information. Polarization holography has many unique properties compared to conventional holography. It gives results in high efficiency, achromaticity, and special polarization properties. This book reviews the research carried out in this field over the last 15 years. The authors provide basic concepts in polarization and the propagation of light through anisotropic materials, before presenting a sound theoretical basis for polarization holography. The fabrication and characterization of

azobenzene based materials, which remain the most efficient for the purpose, is described in detail. This is followed by a description of other materials that are used in polarization holography. An in-depth description of various applications, including display holography and optical storage, is given, and the book concludes with perspectives for the future. This book is an important reference for researchers.
