

# Angular momentum of multimode and polarization patterns

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**Abstract:** We study the mechanical properties of a broad class of multimode and polarization light patterns, resulting from the interference and superposition of waves in helical modes. General local and global properties of energy and angular momentum (AM) are identified, in order to define the conditions to optimize the AM with increasing beam complexity. We show the possibility to engineer independently the local densities of optical AM and energy, opening the possibility of an experimental demonstration of their respective effects in light-matter interaction. Multimode Laguerre-Gaussian beams also allows us to tailor the local spin AM through the Gouy phase.

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**OCIS codes:** (260.2110) Physical optics; Electromagnetic optics; (350.4855) Other areas of optics; Optical tweezers or optical manipulation

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# Angular Momentum Of Multimode And Polarization Patter Ns

**Charles W. Misner, Kip S. Thorne, John  
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Polarization of Light Maria Chekhova, Peter Banzer, 2021-03-22 This book starts with the description of polarization in classical optics including also a chapter on crystal optics which is necessary to understand the use of nonlinear crystals In addition spatially non uniform polarization states are introduced and described Further the role of polarization in nonlinear optics is discussed The final chapters are devoted to the description and applications of polarization in quantum optics and quantum technologies

**Structured Light Fields** Mike Wördemann, 2012-05-16 The optical trapping of colloidal matter is an unequalled field of technology for enabling precise handling of particles on microscopic scales solely by the force of light Although the basic concept of optical tweezers which are based on a single laser beam has matured and found a vast number of exciting applications in particular in the life sciences there are strong demands for more sophisticated approaches This thesis gives an introductory overview of existing optical micromanipulation techniques and reviews the state of the art of the emerging field of structured light fields and their applications in optical trapping micromanipulation and organisation The author presents established and introduces novel concepts for the holographic and non holographic shaping of a light field A special emphasis of the work is the demonstration of advanced applications of the thus created structured light fields in optical micromanipulation utilising various geometries and unconventional light propagation properties While most of the concepts developed are demonstrated with artificial microscopic reference particles the work concludes with a comprehensive demonstration of optical control and alignment of bacterial cells and hierarchical supramolecular organisation utilising dedicated nanocontainer particles

**Frontiers in Optics and Photonics** Federico Capasso, Dennis Couwenberg, 2021-06-08 This book provides a cutting edge research overview on the latest developments in the field of Optics and Photonics All chapters are authored by the pioneers in their field and will cover the developments in Quantum Photonics Optical properties of 2D Materials Optical Sensors Organic Opto electronics Nanophotonics Metamaterials Plasmonics Quantum Cascade lasers LEDs Biophotonics and biomedical photonics and spectroscopy

*Nonlinear Optics And Optical Physics: Lecture Notes From Capri Spring School* Iam-choon Khoo, J F Lam, Francesco Simoni, 1994-08-15 This book consists of contributions by leading authorities in nonlinear optics and optical physics The topics covered include fundamental theories and formalisms on nonlinear optics and current topics of interest in optical physics as well as more specialized subjects such as phase conjugation nonlinear guided waves parametric oscillations and some novel materials The coverage is comprehensive but pedagogical in nature

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