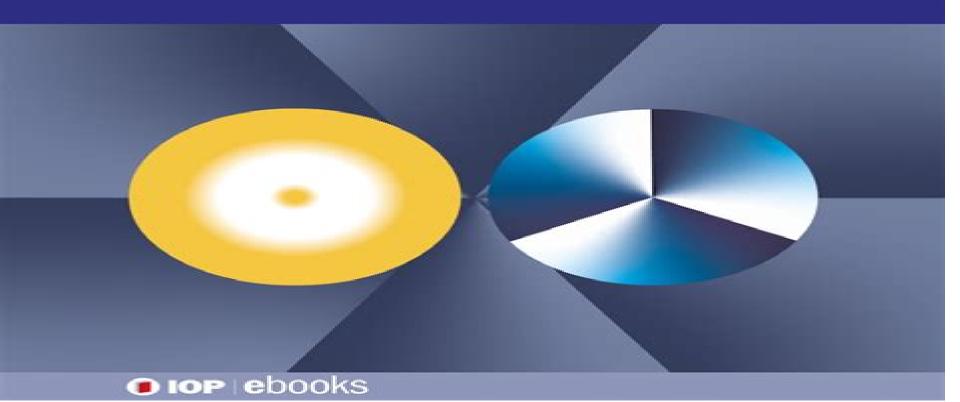
Optical Vortices

Fundamentals and applications

Yuanjie Yang Yu-Xuan Ren Carmelo Rosales-Guzmán



Rosina Ehmann

Second International Conference on Singular Optics (Optical Vortices) Marat Samuilovich Soskin, M. Vasnetsov, 2001 Directory of Published Proceedings ,2002 **Cryptology Transmitted Message Protection** Igor Izmailov, Boris Poizner, Ilia Romanov, Sergey Smolskiy, 2016-06-24 This book presents methods to improve information security for protected communication It combines and applies interdisciplinary scientific engineering concepts including cryptography chaos theory nonlinear and singular optics radio electronics and self changing artificial systems It also introduces additional ways to improve information security using optical vortices as information carriers and self controlled nonlinearity with nonlinearity playing a key evolving role The proposed solutions allow the universal phenomenon of deterministic chaos to be discussed in the context of information security problems on the basis of examples of both electronic and optical systems Further the book presents the vortex detector and communication systems and describes mathematical models of the chaos oscillator as a coder in the synchronous chaotic communication and appropriate decoders demonstrating their efficiency both analytically and experimentally Lastly it discusses the cryptologic features of analyzed systems and suggests a series of new structures for confident communication Proceedings ,2005 Publications in Engineering, 2002 **International Aerospace** International Conference on Singular Optics Marat Samuilovich Soskin, 1998 These papers were Abstracts .1999 taken from a conference on singular optics They address topics such as paraxial beams of spinning light diffraction catastrophes and wave caustics of multimode fibres and visualization of the phase singularities in wavefront sensors

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shape and structure of the non zero portions of the wavefield singular optics describes a wave s properties from its null regions The contents cover the three main areas of the field the study of generic features of wavefields determination of unusual properties of vortices and wavefields that contain singularities and practical applications of vortices and other singularities 8th International Conference on Fourier Transform Spectroscopy ,1992 Physics, Theory, and Applications of Periodic Structures in Optics ,2001 Selected SPIE Proceedings SPIE, Spie--the International Society for Optical Engineering, 2002-07 Includes proceedings volumes 1542 2201 2534 3353 and 4007 Physics, Theory, and Applications of Periodic Structures in Optics II Philippe Lalanne, 2003 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

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