



An Introduction to Quantum Optics: Photon and Biphoton Physics (Series in Optics and Optoelectronics)

Yanhua Shih

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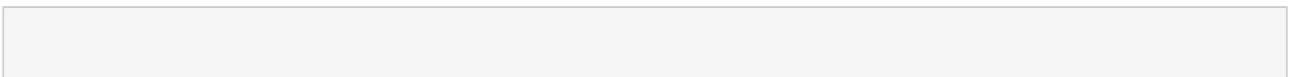
Authored by a highly regarded international researcher and pioneer in the field, **An Introduction to Quantum Optics: Photon and Biphoton Physics** is a straightforward overview of basic principles and experimental evidence for the quantum theory of light. This book introduces and analyzes some of the most exciting experimental research to date in the field of quantum optics and quantum information, helping readers understand the revolutionary changes occurring in optical science.

Paints a picture of light in terms of general quantum interference, to reflect the physical truth behind all optical observations

Unlike most traditional books on the subject, this one introduces fundamental classical and quantum concepts and measurement techniques naturally and gradually as it explores the process of analyzing typical experimental observations. Separating itself from other books with this uncommon focus on the experimental part of analysis, this volume:

- Provides a general overview of the optical coherence of light without quantization
- Introduces concepts and tools of field quantization and quantum optics based on the principles and rules of quantum mechanics
- Analyzes similarities and differences between classical and quantum coherence
- Concentrates on key research topics in quantum optics
- Explains photon and biphoton physics by examining the devices and experimental procedures used to test theories

This book is basic enough for students, but it also covers a broad range of higher-level concepts that will benefit scientists and other professionals seeking to enhance their understanding of practical and theoretical aspects and new experimental methods of measurement. This material summarizes exciting developments and observations and then helps readers of all levels apply presented concepts and tools to summarize, analyze, and resolve quantum optical problems in their own work. It is a great aid to improve methods of discovering new physics and better understand and apply nontraditional concepts and interpretations in both new and historical experimental discoveries.



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