

<<量子光学>>

图书基本信息

书名：<<量子光学>>

13位ISBN编号：9787506249669

10位ISBN编号：7506249669

出版时间：2000-4

出版时间：北京世图

作者：M.O.Scully

页数：630

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

内容概要

The field of quantum optics has witnessed significant theoretical and experimental developments in recent years. This book provides an in-depth and wide-ranging introduction to the subject, emphasizing throughout the basic principles and their applications. The book begins by developing the basic tools of quantum optics, and goes on to show the application of these tools in a variety of quantum optical systems, including lasing without inversion, squeezed states and atom optics. The final four chapters are devoted to a discussion of quantum optical tests of the foundations of quantum mechanics, and to particular aspects of measurement theory. Assuming only a background of standard quantum mechanics and electromagnetic theory, and containing many problems and references, this book will be invaluable to graduate students of quantum optics, as well as to researchers in this field.

书籍目录

Preface
1. Quantum theory of radiation
2. Coherent and squeezed states of the radiation field
3. Incoherent states of the radiation field
4. Field-field and photon-photon correlation interferometry
5. Atom-field interaction - semiclassical theory
6. Atom-field interaction - quantum theory
7. Lasing without inversion and other effects of atomic coherence and interference
8. Quantum theory of damping - density operator and wave function approach
9. Quantum theory of damping - Heisenberg-Langevin approach
10. Resonance fluorescence
11. Quantum theory of laser - density operator approach
12. Quantum theory of laser - Heisenberg-Langevin approach
13. Theory of the micromaser
14. Correlated emission laser: concept, theory and analysis
15. Phase sensitivity in quantum optical systems: applications
16. Squeezing via non-linear optical processes
17. Atom optics
18. The EPR paradox, hidden variables and Bell Theorem
19. Quantum nondemolition measurements
20. Quantum optical tests of complementarity
21. Two-photon interferometry, the quantum measurement problem, and more
Index

<<量子光学>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>