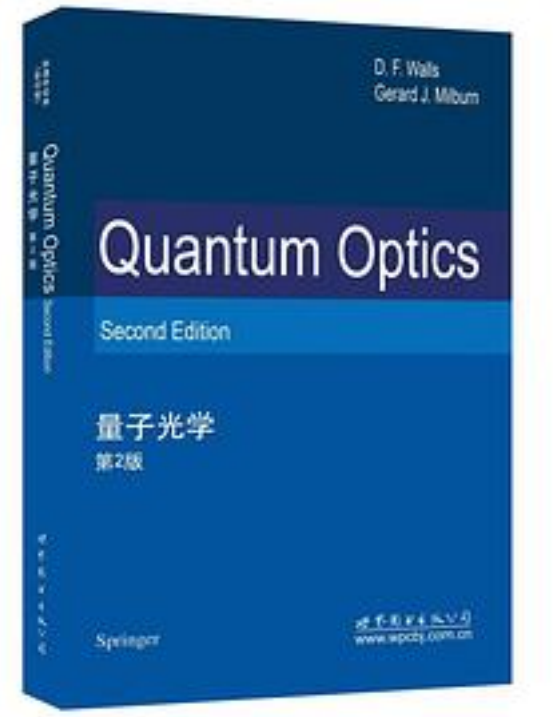
量子光学



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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.

本书为英文版。

作者介绍:

目录:

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标签

量子光学

物理

光学

研究生教材

物理学

Physics

英文

教材

评论

相干理论解决了量子力学中“观测”的含义，从而避免了混入意识这个主观因素。The analysis of some interference experiments confronts us with fundamental questions of interpretation and brings out that the quantum state reflects not what we know about the system, but rather what is knowable in principle.This avoids any reference to consciousness in the interpretation of the state.

What is
Light看完有醍醐灌顶之感！的确是好书，一年前怎么也读不完，现在读异常通顺。

学校跟tamu交流很多，见过scully和zubairy。之前去tamu交流的面试还是zubairy面试的我，scully的讲座我也有幸和他单独交流过。
这本量光是我们大三下的教材，教我们的老师也在教研究生的量光。
感觉这本书更适合研究生学，对高数、量子力学和光学的要求比较高

书里有一些错误，有些东西过时了，像无反转激光都没人做了，原子冷却也有了更先进的办法。

经典，不需要评价什么。如果有，就是变量不方便看。

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书评

There are variety textbooks about quantum optics, among which this is one of the best. Scully start his teaching from the quantizem of electromegnetic field where creation and annihilation operators were introdued. The whole book is based on this language, ...

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