



# Quantum Optics

*By Marlan O. Scully, M. Suhail Zubairy*

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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 discuss quantum optical tests of the foundations of quantum mechanics, and 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.

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## **Editorial Review**

### **Review**

"..Quantum Optics is very impressive and arguably the best book available for the reader who wants to get the leading edges of the field in the least amount of time." Physics Today

### **About the Author**

Marlan O. Scully holds joint appointments at Texas A&M and Princeton Universities. He is a member of the National Academy of Science and the Max-Planck-Gesellschaft. During the course of his life work on the foundations and applications of quantum mechanics, he has come to know many of the pioneers in the field and has collected biographical material on them, which R. Scully has woven into this book.

Robert J. Scully is a heavy equipment diesel mechanic living and working in Irving, Texas, where he is employed by the Caterpillar Corporation. His academic connections include the University of New Mexico and the University of Texas at Dallas. He was a tank diesel mechanic in the marine corps from 1988 to 1993. Robert Scully writes biographies for the National Academy of Sciences, including one on William Hewlett of the Hewlett Packard Corporation and one on quantum physicist Leonard Mandel.

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