

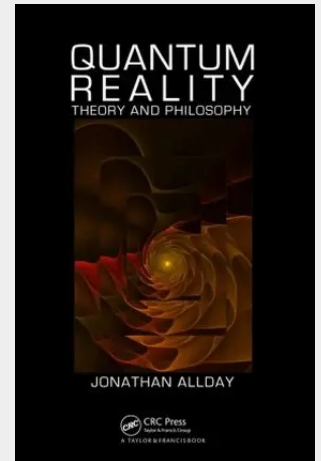
Allday

Quantum Reality

Theory and Philosophy

Probably the most successful scientific theory ever created, quantum theory has profoundly changed our view of the world and extended the limits of our knowledge, impacting both the theoretical interpretation of a tremendous range of phenomena and the practical development of a host of technological breakthroughs. Yet for all its success, quantum theory remains utterly baffling. Quantum Reality: Theory and Philosophy cuts through much of the confusion to provide readers with an exploration of quantum theory that is as authoritatively comprehensive as it is intriguingly comprehensible. Requiring no more than school level physics and mathematics background, this volume requires only an interest in understanding how quantum theory came to be and the myriad ways it both explains how our universe functions and extends the reach of human knowledge. Written by well-known physics author and teacher Dr. Jonathan Allday, this highly engaging work: Presents a thorough grounding in the theoretical machinery of quantum physics Offers a whistle-stop tour through the early part of the 20th century when the founding fathers of quantum theory forever altered the frontiers of human thought Provides an example-filled interpretation of the theory, its applications, and its pinnacle in quantum field theory (QFT), so crucial in shaping ideas about the nature of reality Separates fact from speculation regarding quantum physics' ability to provide a starting point for philosophical queries into ultimate understanding and the limits of science The world beneath the one that we experience with our senses is profoundly mysterious, and while we may never completely unravel that mystery, quantum theory allows us to come closer than ever to understanding where the science leaves off and the mystery begins. Quantum Reality: Theory and Philosophy makes that understanding accessible to anyone possessing a quest for knowledge and a sense of awe.

Quantum Reality: Theory and Philosophy provides a comprehensive summary of the theory of quantum physics. Addressing a variety of associated philosophical issues, the book presents an interpretation of quantum theory that limits the use of mathematics and mathematical language yet offers an academically rigorous treatment of this complex subject. The accessible reading style makes the text appropriate for a wide range of readers, including undergraduate students majoring in both science and non-science areas. Written by a well-known scientific author and educator, this complete reference is especially suitable for students who are not physicists but who are taking physics related courses.



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