



# Quantum Reality: Theory and Philosophy

*Jonathan Allday*

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## **Quantum Reality: Theory and Philosophy** Jonathan Allday

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 20<sup>th</sup> 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.

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