



Do We Really Understand Quantum Mechanics?

By Franck Laloë



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Quantum mechanics is a very successful theory that has impacted on many areas of physics, from pure theory to applications. However, it is difficult to interpret, and philosophical contradictions and counterintuitive results are apparent at a fundamental level. In this book, Laloë presents our current understanding of the theory. The book explores the basic questions and difficulties that arise with the theory of quantum mechanics. It examines the various interpretations that have been proposed, describing and comparing them and discussing their success and difficulties. The book is ideal for researchers in physics and mathematics who want to know more about the problems faced in quantum mechanics but who do not have specialist knowledge in the subject. It will also interest philosophers of science, as well as all scientists who are curious about quantum physics and its peculiarities.

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Editorial Review

Review

"... a good addition to the existing literature on the topic. Recommended."

E. Kinconon, Gonzaga University, Choice Magazine

"... a fine book that provides the reader with excellent discussions of the physical issues most clearly pertaining to the conceptual foundations of quantum theory. It also includes straightforward treatments of a range of interpretations of quantum mechanics and the alternative theories closely related to it. For these reasons, I can strongly recommend it to all with an interest in the foundations of quantum mechanics."

Quantum Information Processing

About the Author

Franck Laloë is a Researcher at the National Center for Scientific Research (CNRS) and belongs to the Laboratoire Kastler Brossel at the Ecole Normale Supérieure. He is co-author of Quantum Mechanics, with Claude Cohen-Tannoudji and Bernard Diu, one of the best known textbooks on advanced quantum mechanics.

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