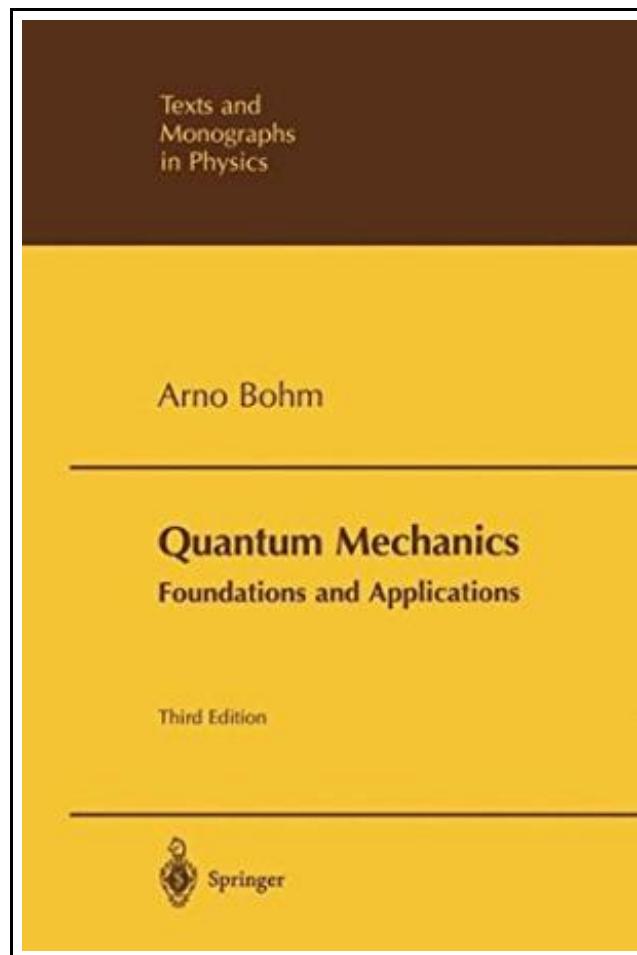


Quantum Mechanics: Foundations and Applications



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Reviews

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Foundations and Applications. With Mark Loewe | This text attempts to present the whole range of quantum mechanics, from the fundamental assumptions to the experimental numbers. The author presents a unified theoretical formulation and includes examples from recent research. Earlier editions of this text have become a standard text and reference work; it has been reprinted and translated. In this third edition, the author has made some minor corrections of the previous edition and has added two new chapters: one on quantal phase factors and their consequences (the "Berry phase") and another on the gauge theory of molecular physics. | This edition differs from the second chiefly in the addition of about 100 pages devoted to the quantum (or geometric, or Berry) phase, a subject that did not exist when this book was written. The changes in the remainder of the book consist of corrections of a small number of misprints. While it may seem that adding two chapters on the quantum phase is overemphasizing a currently fashionable subject, they actually complete the development of quantum theory as given in this book. We start with simple models, synthesizing them into complicated "molecules." With the new chapters, we end with complicated "molecules," dividing them into simpler parts. This process of dividing a complex system into parts quite naturally gives rise to a gauge theory, of which the geometric phase is a manifestation - with consequences not only in theory, but observable in experiments. For this reason, the geometric phase is not a mere fashion, but a discovery that will retain its importance forever and must be discussed in textbooks on quantum mechanics. I would like to acknowledge help and advice from Mark Loewe with the writing and also of the new part...



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