



METADATA

Title: Quantum Theory: A modern approach

Other Titles: -

Language: Greek

Authors: Anastopoulos, Ch., Associate Professor, UPATRAS,
Savvidou, K., Academic Scholar, UPATRAS

ISBN: 978-618-228-069-0

Subject: NATURAL SCIENCES AND AGRICULTURAL SCIENCES

Keywords: Quantum Mechanics / Quantum Information

Bibliographic Reference: Anastopoulos, C., & Savvidou, K. (2024). Quantum Theory: A modern approach [Undergraduate textbook]. Kallipos, Open Academic Editions. <http://dx.doi.org/10.57713/kallipos-302>

Abstract

This book is a modern introduction to Quantum Mechanics. It acquaints the student with both the traditional subject matter and with the impressive developments of the last thirty years. Current technology enables us to conduct experiments that test the most ambitious predictions of quantum theory, to find applications to new kinds of physical systems, and it has led to the emergence

of quantum technologies. Quantum Mechanics is introduced as a logically structured system, starting from a set of basic principles that function as axioms. The book is self-contained, so that it can be a starting point for anyone with the necessary mathematical background. But it works better in audiences with a prior introduction with quantum physics at an introductory level.

