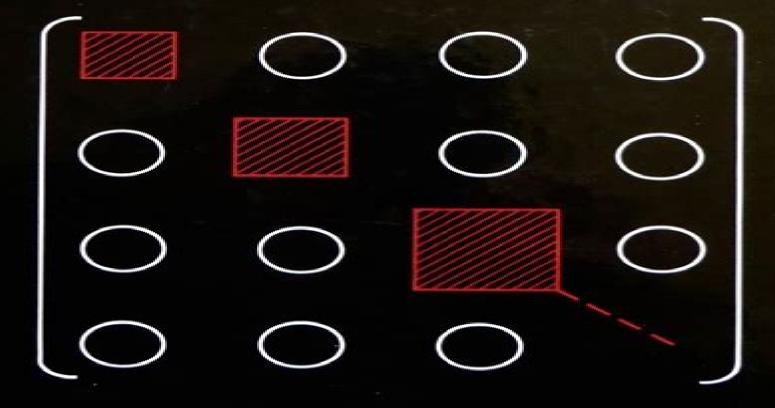
# Modern Quantum Mechanics

### J. J. Sakurai



## Modern Quantum Mechanics By Sakurai J J Napolitano Jim J 2013 Paperback

Jun J. Sakurai

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Physicists at Fault Nathan Armstrong, Ph.D., 2025-08-24 What famous professors won t tell you this book will Physicists at Fault Why you don t understand quantum mechanics yet is written for those tired of the same old stories and who want to learn the actual science of quantum mechanics It is for those who want to take the next step in their understanding of this fascinating subject In this book you will find 170 color images and graphs spread across 100 figures all specifically created to enhance your understanding critical examinations of falsehoods told by physicists to both the public and students of physics that the postulates of quantum mechanics taught to students are at times in disagreement with experiments a Goldilocks amount of math to see past the misconceptions introduced by pop sci physicists writing that is semi academic and in straightforward language without appeals to mystical or inconsistent concepts By the end of this book you should be able to Understand superposition at a deeper level Let go of the classical idea of electrons as tiny spheres or geometric points Comprehend the complex valued nature of wave functions Know how Schr dinger's equation governs the time evolution of wave functions Read and interpret basic Dirac notation Visualize spin and the electric charge associated with wave functions Comprehend the 720 degree rotational symmetry of electrons Distinguish between three commonly confused ideas that are often lumped together as the uncertainty principle Spot where well known professors oversimplify or misrepresent the single slit and double slit experiments. Use the postulates of quantum mechanics as a conceptual framework even if they re imperfect Table of contents Preface 1 On interpretations 2 A first look at quantum angular momentum 3 Misconceptions about the electron in particular 4 Waves and superposition 5 The cat the keg and the cut 6 Mathematics vs measurements 7 Wave particle duality and the double slit experiment 8 The mysterious hieroglyphics of Schr dinger's equation As an energy balance 9 The mysterious hieroglyphics of Schr dinger's equation As a wave equation 10 Gallery of atomic orbitals 11 Spins superpositions and abstract spaces 12 Spring cleaning 13 The uncertainty principle is not what you think it is 14 The postulates of quantum mechanics Afterword Appendix A Atomic orbitals their labels and transitions Appendix B The postulates of quantum mechanics a non mathematical overview Appendix C Matrix mechanics and spin Appendix D The energy time uncertainty relation doesn't exist Glossary of technical terms Bibliography **Modern Quantum Mechanics** Jun John Sakurai, Jim Napolitano, 2011 This best selling classic provides a graduate level non historical modern introduction of quantum mechanical concepts The author I J Sakurai was a renowned theorist in particle theory This revision by Jim Napolitano retains the original material and adds topics that extend the texta s usefulness into the 21st century The introduction of new material and modification of existing material appears in a way that better prepares the student for the next course in quantum field theory You will still find such classic developments as neutron interferometer experiments Feynman path integrals correlation measurements and Bella s inequality The style and treatment of topics is now more consistent across chapters The Second Edition has been updated for currency and consistency across all topics and has been

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