



Exploring Quantum Physics through Hands-on Projects

David Prutchi

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Build an intuitive understanding of the principles behind quantum mechanics through practical construction and replication of original experiments

With easy-to-acquire, low-cost materials and basic knowledge of algebra and trigonometry, *Exploring Quantum Physics through Hands-on Projects* takes readers step by step through the process of re-creating scientific experiments that played an essential role in the creation and development of quantum mechanics.

Presented in near chronological order—from discoveries of the early twentieth century to new material on entanglement—this book includes question- and experiment-filled chapters on:

- Light as a Wave
- Light as Particles
- Atoms and Radioactivity
- The Principle of Quantum Physics
- Wave/Particle Duality
- The Uncertainty Principle
- Schrödinger (and his *Zombie Cat*)
- Entanglement

From simple measurements of Planck's constant to testing violations of Bell's inequalities using entangled photons, *Exploring Quantum Physics through Hands-on Projects* not only immerses readers in the process of quantum mechanics, it provides insight into the history of the field—how the theories and discoveries apply to our world not only today, but also tomorrow.

By immersing readers in groundbreaking experiments that can be performed at home, school, or in the lab, this first-ever, hands-on book successfully demystifies the world of quantum physics for all who seek to explore it—from science enthusiasts and undergrad physics students to practicing physicists and engineers.

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