



Quantum Mechanics Demystified, 2nd Edition

By David McMahon

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If you think projection operators work in the cinema, or learning about spin-1/2 makes your head, well, spin, *Quantum Mechanics DeMYSTiFieD* will energize your knowledge of this topic's fundamental concepts and theories, and allow you to learn at your own pace.

This thoroughly revised and updated guide eases you into the subject, beginning with wave mechanics then introducing you to the mathematical foundations needed to do modern quantum physics. As you progress, you will learn the fundamentals of matrix mechanics, including how to compute the trace of a matrix, find eigenvalues, and use ladder operators. You will understand the difference between time independent perturbation and time dependent perturbation theory and other once-complicated concepts. Detailed examples make it easy to understand the material, and end-of-chapter quizzes and a final exam help reinforce key ideas.

It's a no-brainer! You'll learn about:

- State Space
- Basis Vectors
- Functions of Operators
- The Postulates of Quantum Mechanics
- Angular Momentum
- Spin and the Pauli Matrices
- Scattering Theory

*Simple enough for a beginner, but challenging enough for an advanced student, **Quantum Mechanics DeMYSTiFieD, Second Edition** is your shortcut to a working knowledge of this engaging science.*

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Editorial Review

About the Author

David McMahon works as a researcher in the National Laboratories on nuclear energy. He has advanced degrees in physics and applied mathematics, and has authored several DeMYSTiFieD titles, including *Quantum Mechanics DeMYSTiFieD*, *Relativity DeMYSTiFieD*, *Linear Algebra DeMYSTiFieD*, *Quantum Field Theory DeMYSTiFieD*, and *String Theory DeMYSTiFieD*.

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