

## Lectures On Quantum Mechanics

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Review of previous edition: 'Lectures on Quantum Mechanics must be considered among the very best books on the subject for those who have had a good undergraduate introduction. The integration of clearly explained formalism with cogent physical examples is masterful, and the depth of knowledge and insight that Weinberg shares with readers is compelling.'

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Lecture Notes for Quantum Mechanics F.H.L. Essler The Rudolf Peierls Centre for Theoretical Physics Oxford University, Oxford OX1 3PU, UK March 24, 2020 Please report errors and typos to fab@thphys.ox.ac.uk c 2018 F.H.L. Essler Niels Bohr (Nobel Prize in Physics 1922). \If quantum mechanics hasn't profoundly shocked you, you haven't understood it yet."

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Quantum mechanics (QM; also known as #quantum #physics, quantum theory, the wave mechanical model, or #matrixmechanics), including quantum field theory, is a...

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This chapter is almost exactly the same as Chapter 37 of Volume I. 1-1 Atomic mechanics "Quantum mechanics" is the description of the behavior of matter and light in all its details and, in particular, of the happenings on an atomic scale. Things on a very small scale behave like nothing that you have any direct experience about.

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