

Chapter 1

The Wave Function

Problem 1.1

(a)

$$\langle j \rangle^2 = 21^2 = \boxed{441.}$$

$$\begin{aligned} \langle j^2 \rangle &= \frac{1}{N} \sum j^2 N(j) = \frac{1}{14} [(14^2) + (15^2) + 3(16^2) + 2(22^2) + 2(24^2) + 5(25^2)] \\ &= \frac{1}{14} (196 + 225 + 768 + 968 + 1152 + 3125) = \frac{6434}{14} = \boxed{459.571.} \end{aligned}$$

(b)

j	$\Delta j = j - \langle j \rangle$
14	$14 - 21 = -7$
15	$15 - 21 = -6$
16	$16 - 21 = -5$
22	$22 - 21 = 1$
24	$24 - 21 = 3$
25	$25 - 21 = 4$

$$\begin{aligned} \sigma^2 &= \frac{1}{N} \sum (\Delta j)^2 N(j) = \frac{1}{14} [(-7)^2 + (-6)^2 + (-5)^2 \cdot 3 + (1)^2 \cdot 2 + (3)^2 \cdot 2 + (4)^2 \cdot 5] \\ &= \frac{1}{14} (49 + 36 + 75 + 2 + 18 + 80) = \frac{260}{14} = \boxed{18.571.} \end{aligned}$$

$$\sigma = \sqrt{18.571} = \boxed{4.309.}$$

(c)

$$\langle j^2 \rangle - \langle j \rangle^2 = 459.571 - 441 = 18.571. \quad [\text{Agrees with (b).}]$$

Griffiths Quantum Mechanics 2nd Ed Solutions Manual

Joyce A. Cascio



Griffiths Quantum Mechanics 2nd Ed Solutions Manual:

The Epistemology of Quantum Physics Taha Sochi, 2022-08-07 This book is about the epistemology of quantum physics and its interpretation as a scientific theory in its technical form The contents of the book are essentially of non formal nature although the formalism of quantum mechanics is also investigated rather briefly inline with the needs and requirements of the epistemological investigation and considerations The reader should note that a general scientific and mathematical background at the undergraduate level is required to understand the book properly and appreciate its contents The book is like my previous books in style and favorable characteristics such as clarity graduality and intensive cross referencing with hyperlinks in the electronic versions However the book unlike my previous books does not contain questions or exercises or solved problems The book is particularly useful to those who have special interest in the interpretative aspects of quantum theory and the philosophy of science although it should be useful even to those who are interested in the purely scientific and technical aspects of the quantum theory since the contents of the book should broaden the understanding of these aspects and provide them with qualitative and interpretative dimensions as well as the added benefit of the brief investigation of the formalism of quantum mechanics _____, 2019-01-16

This book deals with the interplay between fundamental physics and philosophy of physics from the one hand and metaphysics and philosophy from the other hand It is divided into three independent parts philosophical general and mathematical Part I deals with foundations and philosophy of quantum mechanics philosophy of time philosophy of consciousness and free will foundations of mathematics as well as a brief introduction to metaphysics Part II is a general excursion in the world of fundamental physics particles fields strings black holes the universe quantum gravity mathematics and history of physics Part III is a detailed rigorous introduction to the three main areas of fundamental physics classical mechanics thermodynamics and statistical mechanics quantum mechanics

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