

6/6/22

# UNIT: 4 QUANTUM MECHANICS

Page No.	
Date	

Quantum: position, velocity not fixed.  
 small particle  $v \approx c$  NLM not applicable.  
 (microscopic)  
 Both particle & wave nature

Nature loses symmetry

\* De-Broglie's hypothesis:

A/c to De-Broglie's hypothesis every moving particle is associated with wave called matter wave or De Broglie wave whose wavelength is given by

$$\lambda = \frac{h}{p} = \frac{h}{mv}$$

$\lambda$  - wavelength  
 $h = 6.63 \times 10^{-34} \text{ J}\cdot\text{s}$   
 $m$  - mass of particle  
 $v$  - velocity of particle

$$m = \frac{m_0}{\sqrt{1 - \frac{v^2}{c^2}}}$$

$m_0$  - rest mass  
 $m$  - Relativistic mass

\* \* DeBroglie wavelength by Analogy with Radiation:

From the theory of relativity the momentum of massless particle like photon is related to its energy 'E'

$$E = mc \cdot c$$

$$\boxed{E = p \cdot c} \quad \text{--- (i)}$$

From Planck's quantum theory energy E

$$E = h\nu$$

$$\boxed{E = \frac{hc}{\lambda}} \quad \text{--- (ii)}$$

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**Patrick Vollmar**



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  - Advantages of eBooks Over Traditional Books
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  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Quantum Statistical Mechanics Lecture Notes Pdf Download
  - User-Friendly Interface
4. Exploring eBook Recommendations from Quantum Statistical Mechanics Lecture Notes Pdf Download
  - Personalized Recommendations
  - Quantum Statistical Mechanics Lecture Notes Pdf Download User Reviews and Ratings

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- 8. Staying Engaged with Quantum Statistical Mechanics Lecture Notes Pdf Download
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  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Quantum Statistical Mechanics Lecture Notes Pdf Download
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  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Quantum Statistical Mechanics Lecture Notes Pdf Download
  - Setting Reading Goals Quantum Statistical Mechanics Lecture Notes Pdf Download
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Quantum Statistical Mechanics Lecture Notes Pdf Download
  - Fact-Checking eBook Content of Quantum Statistical Mechanics Lecture Notes Pdf Download
  - Distinguishing Credible Sources

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  - Exploring Educational eBooks
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  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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