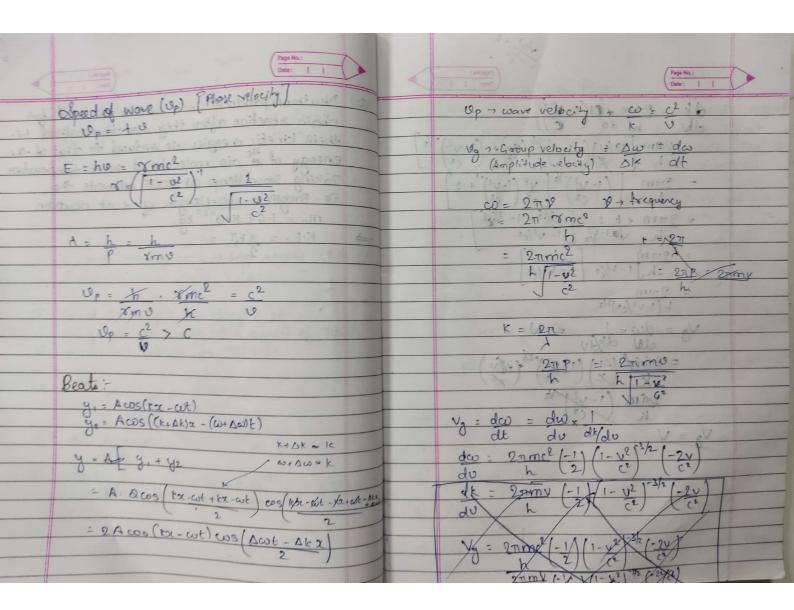
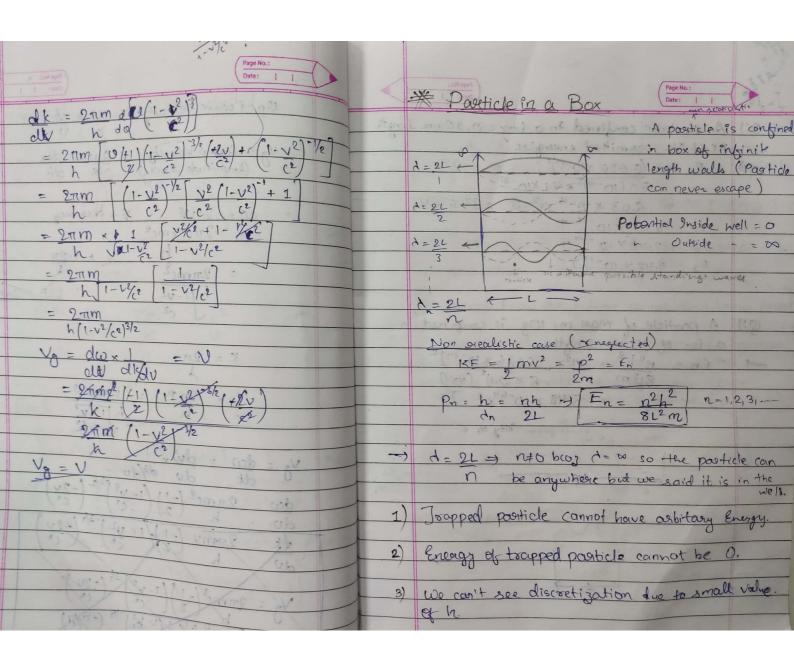


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	Monoatomic : f = 3 => E = 3 k T		Let E = 10 ho Tn \$ 10].
	Monoatomic : f: 5 > E = 267		
	Datomic	-	E = nhv $= 1(h(100)) - 2(h(50)) = = 5(h(20))$
NAME OF STREET	in storage of felldom	10	= 10. (hu) = . ????
-	there, no of modes = degree of fellow		
	mades F 1 1/2 KT	\rightarrow	Energy con't be broken any mosip
0 - 63.6		->	So at higher U, no. of modes tall
	-	-	so with a, energy doesn't increase always and
	ds = 243 3 3.1/2 k7		UV catastrophe :s solved.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A	Temes with play nated at high spreads (0.1
TO SERVICE STATE OF THE PARTY O	1 100	A	$E = h \cdot 2\pi = h \cdot \omega + h \cdot \omega = 2\pi $ $2\pi \qquad 2\pi$
1	to and the oftened we sware mit with the		
3000	Ultraviolet (Succession		h = h . 9 = h
	E.D.		27
	UV Catastrophe	2/0	08 13 had 270 got my lad by 271
Cre	(Compared to 1st graph)	2/1	b all kill and a ment of least of the late
Çz-	(Compared to 15+ graph) Saheronitical	9.	A certain 660 Hz tuning fook be considered as a
	(compared to 1st graph) Sometime of the continued of the	9.	A certain 660 Hz turing fook be considered as a harmonic oscillator of vibrational energy 0.04 J.
→	(compared to 1st graph) (Theopitical) Adopting classical physics to the Minimum Classical physics	9.	A certain 660 Hz turing fook be considered as a harmonic oscillator of vibrational energy 0.04 J.
->	Adopting classical physics to be this it lead to	<u>o.</u>	A certain 660 Hz turing fook be considered as a harmonic oscillator of vibrational energy 0.04 J. Compase the energy quanta of this turing fook with that of an atomic oscillator absorbing &
->	(compared to 1st graph) Sometime of the continued of the	9-	A certain 660 Hz turing fook be considered as a harmonic oscillator of vibrational energy 0.04 J.
	Adopting classical physics to be this it lead to this cotastrophe of as energy which also fails to explain observed graph		A certain 660 Hz turing fook be considered as a harmonic oscillator of vibrational energy 0.04 J. Compare the energy quanta of this turing fook with that of an atomic oscillator absorbing & emitting radiation of frequency 5.00 × 10 7 Hz
>	Adopting classical physics to blo His it lead to this cotastrophe of as energy which also fails Planck's Explanation		A certain 660 Hz turing fook be considered as a harmonic oscillator of vibrational energy 0.04 J. Compare the energy quanta of this turing fook with that of an atomic oscillator absorbing & emitting radiation of frequency 5.00 × 10 7 Hz
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0	Particle wave Nave Particle (Page No.: Date: 1	<	1.688 spc5 Page No. :		
11. 2. 3. 4.	P = ho De-Baughie P = h P = r.me P = r.me T-v² C² V comes into play only at high appeads (0.80 0.90) For macroscopic would r=1	O::)	Neutrons produced in a secretar one used for chain reaction after they are thormalised i.e. their kinetic energies are reduced to that of the energy of the air molecules at soom temperature Taking proom temp as 300K estimate the Dr. Broglie's wavelengths of such neutron mn = 1.67 × 10 ⁻²⁺ kg. K.E. = 3 k.T =		
2 9:	Find De-Broglie wavelengths of		V N OME		
2)	an e- with velocity of 107 m/s				
	900 1000 1000		Sea to Sea		
1	1 - 10 × 899		B Acos(trr. cot) B Acos(trr. cot) B Acos(trr. cot)		
	4 = h ×1000 = 4.8 × 10-34 m		discourse of the state of the s		
2)	7.27 x10"m = 7.27 x10"m	134 - by	or in the fees (too ret his not) cases A		
			(5.44 - 365A) eas (365 - 107) in 186		





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is Q!) An electron confined in a box 0.10 nm length	
	Let n=10 how wavelengths It n=20
En = 6.626 Alo -31	$\Delta p = p(A_{10}) - p(A_{1})$ $\Delta p = p(A_{20}) - p(A_{1})$
8×(10-10)= K 4.1 ×10 = 6.03 × 10-18 n² J = 37.6 eV	Addition and a
10 10	9 Dat Apl 9 Dal Opt
4 2 F = 2.41 × 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
E3 - 5.42 × 10-12 J	$\rightarrow \qquad \Delta x \cdot \Delta p \geqslant \frac{1}{h} \qquad \Delta f \cdot \Delta t \gg \frac{1}{h}$
	and controlled to be decreased whether the last a
	"We cannot know the future as we don't know present
19:11 A profile of mass m= 10g is confined in	and the second second second
a box of 10 cm length $= n^{2}h^{2} = n^{2} (6.626 \times 10^{-34})^{2}$ $= 81^{2}m \qquad 8 \times (0.1)^{2} (10^{-2})$	A measurement confirms the position of a proton
812m 8 x (0.1)2 (10-2)	to an accuracy of + 1.00 × 10" m. Find the
= 5.48 × 10-64/n2 J	i) Remains constant ii) Increases iii) Decreases (u K C)
21 21 21	$\Delta x_0 = \pm 1.00 \times 10^{-11}$ at $t = 0$ s
More probability of e	Δx = 9 at t = 1.00s
and the same of the same to be were	Δρ. Δχ. >, tr
e can be originated to the control of the control o	Allessons and ever oralising graditionals to
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Ch 3 3.1-3.7 & 3.09 Ch 3 3.1-3.7 & 3.09 Lincolding to Application of relativistic state of the lativistic state of the lativ			
The state of the s	2>	24 must be continuous 2 single valu	red (for y, z)
Tag Lea is man man man		dx	400/
	3. →	4 must be Normalizable : 1. 4-0	$x \rightarrow \pm \infty$
1 x 10 21 d t A S GA.XA	3.	Trings of the same	(3.2)
-> We have record that a miceroscopic particle acto		4 should be complex	00
of a secretary of its behaviour are		4- A + iB A, B -> real \$25	1412dx = 1
gaverned by an associated De Broglie mave or			- 6
wavefunction.		1412 = V. 4 = (A+1B) (A-1B)	Myrav ac P
when a law item and provident freshow the providence At the		= A2+B2 > O	1
a) a de l'ac with room l'apple and l'été motion	-	- A - b // -	Probability
-) In dealing with very simple case like motion of a proticle & particle in a box we have			
of a provide a provide in a post we have			
applied this aspects of matter maves suressfully	-		
A A C I TO THE OIL OOL TO A TO A	1		
-) However, It doesn't tell us how the wave propagato			
A 5 XA - GA			
Though these postulates have been successfully			
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of a particle & the properties of the associated			
wavefunction that is decribing the wave			
decribing the water			