班级: 计时 姓名: 冬速钠 编号: 2020010&9 科目: 物理

第 1 页

26.6 Eks: T=3K

· Vm, P

34: Dm = CDT = 5-88 x 10 0 x 3 = 1.764 x 10 "Hz

P=M. 47R2 = 470T4R2 = 470 x 5.67 x 10-8 x 34 x (6400 x 103) 2 = 2.364 x 109 W

26.11 己仁: 选出坊 A=4.2eV , X=200 nm = 200x 10-9

求: 最大的能 EL, 一, 截止电压 Uc, 铝的红层波发入。

1/4: (1) Ex. ~ = hu - A = h. C - A = 6.63 × 10-34 × 2×10-3 × 1.6×10-1 - 4.2 = 2.0 eV

(2) Uc = Ekm/e = 2.0 = 2.0 V

(3) $\lambda_0 = \frac{C}{V_0} = \frac{hc}{A} = \frac{663 \times 10^{-34} \times 3 \times 10^8}{42 \times 1.6 \times 10^{-19}} = 2.96 \times 10^{-7} \text{ m}.$

26.15 Eko: Eo= 0.6 MeV , \= 1.2 \s

我: 坂冲电子功能 Ee.

14: E= \frac{hc}{\lambda} = \frac{Fo}{1.2\lambda} = \frac{Fo}{1.2} , \quad \text{Ee} = \frac{Fo}{1.2} = \frac{Eo}{6} = \frac{0.6}{6} = 0.1 \text{ MeV}

26.22 Exo: $m = \frac{mo}{\sqrt{1-v^2/c^2}}$, $v = \frac{E}{h} = \frac{mc^2}{h}$, $\lambda = \frac{h}{P} = \frac{\lambda}{mv}$, $v_1 = \frac{dw}{dk} = \frac{dv}{d(\pm)}$

 $\beta_{+}^{2} \pm d\nu = d\frac{mc^{2}}{h} = \frac{c^{2}}{h}dn , \quad d(\frac{1}{h}) = \frac{vd_{m} + mdv}{h}$ $c^{2} dv$ $c^{2} dv$

 $k_1 = \frac{dy}{dt} = \frac{C^2}{h} \cdot \frac{hdm}{vdm+mdv} = \frac{c^2 \frac{dm}{dv}}{v \frac{dn}{dv} + m}$

182 m= mo du = mov co (1-v2) 2 /3

 $V_{g} = \frac{C^{2} \cdot \frac{m_{o} V}{C^{2} \cdot (1 - \frac{V^{2}}{C^{2}})^{\frac{1}{2}}}}{V \cdot \frac{m_{o} V}{C^{2} (1 - \frac{V^{2}}{C^{2}})^{\frac{1}{2}}} + \frac{m_{o}}{(1 - \frac{V^{2}}{C^{2}})^{\frac{1}{2}}}} = \frac{V}{\frac{V^{2}}{C^{2}} + 1 - \frac{V^{2}}{C^{2}}} = V$

26.30 证明: 质量的的数子 在监长 a 的业分体运动,零点能 Enin = 3/2 8ma2

证:取山本山、有山及文社 = 本

取 Px ≈ △Px, 有 Px > 立

同理可得 Pu > 左, Pi=左

to Emin = Pmin = Px, min + Py, min + Po, min = 3th 2 ma2