

Problem (Continued)

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Problem 5: X-ray production A

Problem 4: The de Brugue wavelength of macroscopic ogens Martanoble = 2000kg -25mph Ade Graplie = MV = [6.626×10-34 15.m2] [2000 kg] [25 minh 0.44704 m] Iniles = 0.44704 m = 2.96439×10⁻³⁸ m (= 14M P = 700 kg T= 300k Maux particle = pV = 200/8 . 4 T (1×10 m)3 = 8.3776×10-16 kg KE= 3 KBT = 1/mV2 $V = \sqrt{\frac{3 \text{ KBT}}{m}} = \sqrt{\frac{3(1.38 \times 10^{-23} \frac{\text{m}^2 \text{ kg}}{\text{sec} \text{ kg}})(300 \text{ kg})}{(8.3176 \times 10^{-16} \text{ kg})}} = 0.0039 \text{ m/s}$ M dust pertide = [8.3776×10-16 18] [0.0039 outs] = [2.03321×10-16 m] VIOUNE = 3(1.38×10²³ m^{2kt})(100×10⁶K) = 0.17/m/s MRb = 1,41973×10-25/2 7 Rb = th = [6.676×10-24 17 m²] = [2.73025×10-8 m] Problem 5: Time delay in phoevelectric delay A=121nm Inventory Conv A=1cm2 W=eV a) Intersty = every/time time = every = $\frac{e^{-1/2}}{area}$ [$\frac{1.602\times10^{-19} \text{ J}}{18^{10}}$] = $\frac{1.602\times10^{-19} \text{ J}}{18^{10}}$] 5) time = [5eV. 1.602×10-19] = 0.11615] = 0.11615] (2π) [121×10-9/ 100cm] 2 [10×10-9/5] (2π2)

X

P= \$ Apy = \$ Ay

PA=(A)A)AGAy

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