8.5. We apply Stepu's land reitly for eV, assume ne are looking for LBT. => (KBT) = KB M = 1 60 th 3 c2 n=flax = Pour $= 10^{13} \text{ W} \approx 10^{13} \text{ W} \approx 10^{13} \text{ W}$ $\pi \times 2 \times (8 \times 10^{4})^{2} \times 402 \times 10^{8} \text{ m}^{2}$ $\approx 10^{13} \times 10^{13} \times$ $66 + \frac{3}{3}c^{2} + \frac{66 \times 10^{102}}{102} + \frac{17}{3}$ The second of t (kBT) 2 10 19 n 6x10 85 10,5 J 2, 6,2x10 0.V = 196 eV = 6x10 66 J4.