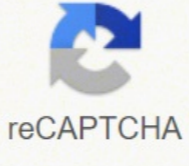




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DOWNLOAD PDF (Mirror Link) This is a non-benefit site to share the information. (b) The Taylor series for the exponential function is  $e^x = 1 + x + \frac{x^2}{2!} + \dots$ . (c) Since the impure metal has a smaller work function, there will be more energy left over after the electron escapes and the maximum T is larger for impure Na. 1.5 (a) At high frequencies, we have  $h\nu / T \gg 1$  and the  $-1$  in the denominator of Planck's formula can be neglected to give Wien's formula. We believe everything in the internet must be free. 1.2 (a) E\_photon =  $h\nu = hc / \lambda = (6.626 \times 10^{-34} \text{ J s})(2.998 \times 10^8 \text{ m/s}) / (1064 \times 10^{-9} \text{ m}) = 1.867 \times 10^{-19} \text{ J}$ . You're Reading a Free Preview Page 271 is not shown in this preview. You're Reading a Free Preview Pages 114 to 119 are not shown in this preview. 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