Prob

Wednesday, February 20, 2019 8:37 PM

D.A.
their feet wet? The density of water is 1000 kg/m ² .
Use the following situation for the next two problems. $P = \frac{E}{E}$
Monochromatic light of wavelength of 180×10^{-9} m and power 1.0×10^{-3} W strikes a metal surface with a work function of 0.69×10^{-18} J. The mass of an electron is 9.1×10^{-31} kg.
$E=hf=h\frac{c}{2}$
3. (5 points) What is the maximum kinetic energy of the emitted electrons?
(A) 0.41×10-18 J E=hf=Kmax+E0 = 1mV2
B) 1.10×10 ⁻¹⁸ J
C) 1.79×10 ⁻¹⁸ J
D) 0.93×10^{-3} J $m\chi^2$ $= h = h = \frac{6.626 \text{ M} \cdot 0.58 \times 10^{-3}}{1.86 \times 10^{-3}}$ J $m\chi^2$
E) 1.00×10 J
4. (5 points) If the intensity of the light is increased, what will happen to the ejection rate and
maximum energy of the electrons?
하는데 나가 하다고 하다고하게 많이 얼마나가 나무게하는데 되었다.
A) Greater ejection rate; same maximum energy.
B) Same ejection rate; greater maximum energy.
C) Greater ejection rate; greater maximum energy.
D) Same ejection rate; same maximum energy
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