

Photoelectric Effect – Problem Solving

Useful physical constants and conversions:

$q_{\text{electron}} = -1.6 \times 10^{-19} \text{ C}$	$c = 3.00 \times 10^8 \text{ m/s}$	$h = 6.63 \times 10^{-34} \text{ J s}$ $= 4.14 \times 10^{-15} \text{ eV s}$	$1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$
$m = 9.11 \times 10^{-31} \text{ kg}$	$hc = 1240 \text{ eV nm}$		

Energy relationships:

$E_{\text{photon}} = hf = \frac{hc}{\lambda}$	$E_{\text{kinetic}} = \frac{1}{2}mv^2$	$\Delta E_{\text{electric}} = q\Delta V$	$\phi = \text{work function}$
$KE_{\text{max}} = E_{\text{photon}} - \phi$	$qV_{\text{stopping}} = E_{\text{photon}} - \phi$	$hf_0 = \frac{hc}{\lambda_0} = \phi$	$KE_{\text{max}} = qV_{\text{stopping}}$

Table of work functions

$\phi_{\text{sodium}} = 2.28 \text{ eV}$	$\phi_{\text{copper}} = 4.7 \text{ eV}$	$\phi_{\text{calcium}} = 2.9 \text{ eV}$	$\phi_{\text{platinum}} = 6.35 \text{ eV}$	$\phi_{\text{gold}} = 5.1 \text{ eV}$
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- What is the energy of each photon for the wavelengths and frequencies shown? Give answers in both Joules and electron-volts.

- $\lambda = 240 \text{ nm}$ (ultraviolet) $8.3 \times 10^{-19} \text{ J}$ 5.2 eV
- $F = 104.3 \text{ MHz}$ (radio) $6.9 \times 10^{-26} \text{ J}$ $4.3 \times 10^{-7} \text{ eV}$
- $\lambda = 21 \text{ cm}$ (microwave) $9.5 \times 10^{-28} \text{ J}$ $5.9 \times 10^{-8} \text{ eV}$
- $\lambda = 650 \text{ nm}$ (red light) $3.1 \times 10^{-19} \text{ J}$ 1.9 eV

Which of these photons is most likely to produce a current in the photoelectric effect?

The 5.2 eV photons are the most likely to produce a current since they have the most energy. Comparing their energy to the work functions shown in the table above they would produce a current for sodium, copper, calcium, and gold, but not for gold. The red light would only produce a current if the target material had a very small work function. Microwaves and radiowaves have much too long a wavelength and too small a photon energy to eject any electrons.

- Find the wavelength and frequency of photons with the following energies:

- $E_{\text{photon}} = 1200 \text{ eV}$ (x-ray) 1.0 nm $3.0 \times 10^{17} \text{ Hz}$
- $E_{\text{photon}} = 4.2 \times 10^{-19} \text{ J}$ (blue light) 476 nm $6.3 \times 10^{14} \text{ Hz}$
- $E_{\text{photon}} = 0.51 \text{ MeV}$ (gamma) 2.4 pm $1.25 \times 10^{20} \text{ Hz}$

- What is the minimum frequency of light that would produce a photocurrent if the target is made of gold? At threshold frequency the energy of the photon is just large enough to remove an electron.

$$hf_0 = \phi_{\text{gold}} \rightarrow f_0 = \phi_{\text{gold}}/h = 5.1 \text{ eV} / (4.14 \times 10^{-15} \text{ eV s}) = 1.23 \times 10^{15} \text{ Hz}$$

- What is the maximum kinetic energy of electrons if radiation with a wavelength of 350 nm shines on sodium?

$$KE_{\text{max}} = hc/\lambda - \phi_{\text{sodium}} = (1240 \text{ eV nm}) / (350 \text{ nm}) - 2.28 \text{ eV} = 1.26 \text{ eV} = 2.02 \times 10^{-19} \text{ J}$$

- When a monochromatic source of light is shining on a copper target a voltage of 3.5 V stops the current.

- What is the maximum speed of the electrons? $KE_{\text{max}} = qV_s = 3.5 \text{ eV} = 5.6 \times 10^{-19} \text{ J} \rightarrow v = \sqrt{2KE/m} = 1.1 \times 10^6 \text{ m/s}$
- What is the wavelength of the light? $3.5 \text{ eV} = hc/\lambda - \phi_{\text{copper}} \rightarrow \lambda = 1243 \text{ eV nm} / (3.5 \text{ eV} + 4.7 \text{ eV}) = 152 \text{ nm}$

- What is the stopping voltage if UV radiation with a wavelength of 100 nm shines on platinum?

$$qV_s = hc/\lambda - \phi_{\text{platinum}} = 12.43 \text{ eV} - 6.35 \text{ eV} = 6.08 \text{ eV} \text{ so, the stopping voltage is } 6.08 \text{ V}$$

Photoelectric Effect Problems With Answers

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Fundamental Problems and Solutions in Finance Zhiqiang Zhang, 2023-04-27 This book provides innovative solutions to fundamental problems in finance such as the valuation of bond and equity the pricing of debt equity and total asset the determination of optimal capital structure etc which are unsolved or poor solved so far The solutions in this book all have the following features Based on essential assumptions in line with reality the final solutions are analytical solutions with closed form models the forms and variables of the models are determined by strict and objective logic processes rather than chosen or presumed subjectively such as the new growth model for stock valuation the new CAPM accounting for total risk rather than only systematic risk the real solution to optimal capital structure based on the trade off between tax shield and bankruptcy cost In addition these basic solutions or models are adjusted easily to various application scenarios **Physics**

Questions and Problems, with Answers Alexander Efron, 1959 *Optics For Dummies* Galen C. Duree, Jr., 2011-07-12 The easy way to shed light on Optics In general terms optics is the science of light More specifically optics is a branch of physics that describes the behavior and properties of light including visible infrared and ultraviolet and the interaction of light with matter Optics For Dummies gives you an approachable introduction to optical science methods and applications You ll get plain English explanations of the nature of light and optical effects reflection refraction and diffraction color dispersion optical devices industrial medical and military applications as well as laser light fundamentals Tracks a typical undergraduate optics course Detailed explanations of concepts and summaries of equations Valuable tips for study from college professors If you re taking an optics course for your major in physics or engineering let Optics For Dummies shed light on the subject and help you succeed **Veterinary Science Objective Questions With Answers Ebook-PDF**

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basically the New Science Theory com site as on 1 January 2018 for changes since then visit the website with its Sitemap noting updates It is especially good for those interested in physics theory concentrating chiefly on the four great physicists William Gilbert Rene Descartes Isaac Newton and Albert Einstein and also having fine sections on Galileo Kepler History of Science Gravity Light String Theory Standard Model Physics Probability Science Philosophy of Science and General Image Theory Science The second book is a new improved English translation of William Gilbert s banned Latin 1600 De Magnete or On The Magnet This is rather easier to read than its two earlier translations and significantly helps to clarify Gilbert s attraction physics which Newton put as one of the two mathematized physics options and which he is believed to have privately favoured It is basically a novel signal response or remote control physics that may still have relevance *Optical*

Coherence and Quantum Optics Leonard Mandel, Emil Wolf, 1995-09-29 This book presents a systematic account of optical coherence theory within the framework of classical optics as applied to such topics as radiation from sources of different states of coherence foundations of radiometry effects of source coherence on the spectra of radiated fields coherence theory of laser modes and scattering of partially coherent light by random media

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Principles of Quantum Electronics Dietrich Marcuse, 2012-12-02 Principles of Quantum Electronics focuses on the concept of quantum electronics as the application of quantum theory to engineering problems It examines the principles that govern specific quantum electronics devices and presents their theoretical applications to typical problems Comprised of 10 chapters this book starts with an overview of the Dirac formulation of quantum mechanics This text then considers the derivation of the formalism of field quantization and discusses the properties of photons and phonons Other chapters examine the interaction between the electromagnetic field and charged particles This book discusses as well the interaction of radiation with free and bound electrons with focus on the spontaneous and stimulated emission of radiation by bound electrons The final chapter provides the investigation that Maxwell's theory can be regarded as the quantum theory of a single photon This book is a valuable resource for graduate students specialists and engineers who are interested in the field of quantum electrodynamics

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