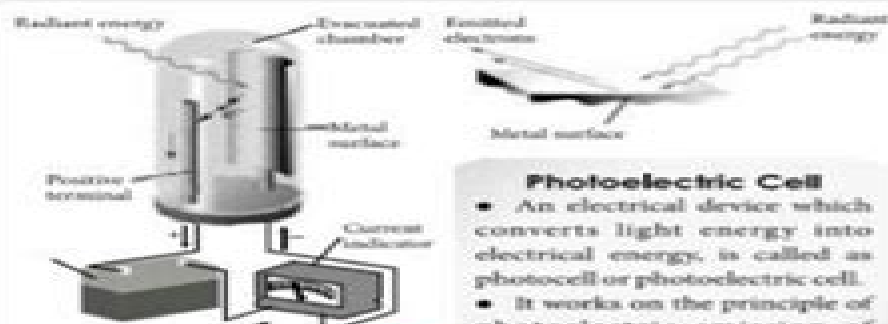


QUANTUM THEORY OF LIGHT

**BRAIN
MAP**
CLASS XII



Photoelectric Cell

- An electrical device which converts light energy into electrical energy, is called as photocell or photoelectric cell.
- It works on the principle of photo-electric emission of electrons.

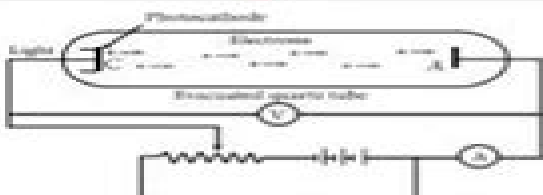
Photo-electric Effect

- The phenomenon of emission of electrons from a metal surface when an electromagnetic wave of suitable frequency is incident on it is called photoelectric effect.



Photoelectric Equation

- $E = K_{\max} + \phi_0$
where ϕ_0 = work function of metal,
 E = energy of incident light,
 $K_{\max}$ = maximum kinetic energy of electrons
- $\frac{1}{2}mv_{\max}^2 = h\nu - \phi_0 = hc\left(\frac{1}{\lambda} - \frac{1}{\lambda_0}\right)$
where, $\lambda_0 = \frac{hc}{\phi_0}$ = threshold wavelength



PARTICLE NATURE OF RADIATION

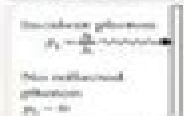
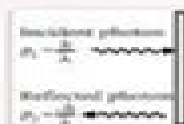
Basic Quantum Theory of Light

- According to Planck, the energy of a photon, $E = h\nu$;
$$E = h\nu = \frac{hc}{\lambda} = \frac{1240}{\lambda(\text{in nm})} \text{ eV}$$
- Momentum of photon, $p = \frac{E}{c} = \frac{h\nu}{c} = \frac{h}{\lambda}$
- If source is 100% efficient, then the number of photons emitted per second by the source can be given by
$$n = \frac{\text{Power of source}}{\text{Energy of photon}} = \frac{P}{E} = \frac{P}{h\nu} = \frac{PA}{hc}$$
- The energy crossing per unit area per unit time perpendicular to the direction of propagation is called the intensity of a wave.
 $I = E/At = P/A$
- Force exerted on perfectly reflecting surface
$$F = \frac{\Delta p}{t} = \frac{2Nh}{t\lambda} = n\left(\frac{2h}{\lambda}\right) = \frac{2P}{c}$$

$$\text{Pressure} = \frac{F}{A} = \frac{2P}{cA} = \frac{2I}{c}$$
- Force exerted on perfectly absorbing surface
$$F = \frac{\Delta p}{t} = \frac{Nh}{t\lambda} = n\left(\frac{h}{\lambda}\right) = \frac{P}{c}$$

$$\text{Pressure} = \frac{F}{A} = \frac{P}{cA} = \frac{I}{c}$$
- When a beam of light is incident at an angle θ on perfectly reflector surface then force exerted on the surface,
$$F = \frac{2P}{c} \cos\theta = \frac{2IA \cos\theta}{c}$$

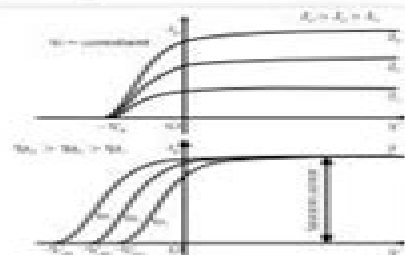
$$\text{Pressure} = \frac{2I \cos\theta}{c}$$



Conclusions of Experimental Study of Photoelectric Effect

- Photo-current is directly proportional to the intensity of incident light, i.e., $i_p \propto I$.
(At constant frequency ν and potential V)
- At constant frequency and intensity, the minimum negative potential at which the photocurrent becomes zero is called stopping potential (V_0).
- At stopping potential V_0 , $K_{\max} = eV_0$
- For a given frequency of the incident radiation, the stopping potential is independent of its intensity.
- The stopping potential varies linearly with the frequency of incident radiation but saturation current value remains constant for a fixed intensity of incident radiation.

- Quantum efficiency = $\frac{n_e}{n_{ph}}$
 n_e = number of electron emitted per second
 n_{ph} = total number of photon incident per second



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Scott C. Dulebohn



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A Skeptic's Guide to Belief Ken Crispin, 2019-04-04 What would happen if you faced your doubts set aside your preconceptions and decided to follow the path of truth wherever it might lead Most people whether believers or atheists doggedly defend what they have always believed Many see this as an expression of faith Yet there is something almost inexpressibly sad about the plight of people living out their lives in reliance upon beliefs they dare not question Perhaps that is why many of us come to a point at which we feel compelled to pursue the truth no matter what the implications But even if we found the courage to embark upon such a journey could we really find a path through the scientific philosophical experiential and theological thickets that surround the great questions of life And if we did would we know the truth and be set free Would we be forced to face a long feared despair Or would we find ourselves still staring impotently at an enigmatic universe This is a book unlike any other It

addresses these questions with unflinching honesty drawing evidence from a diversity of scientific fields and subjecting the competing arguments to rigorous skeptical analysis Energy Research Abstracts ,1993 Dictionary of North Carolina Biography William S. Powell,2000-11-09 The most comprehensive state project of its kind the Dictionary provides information on some 4 000 notable North Carolinians whose accomplishments and occasional misdeeds span four centuries Much of the bibliographic information found in the six volumes has been compiled for the first time All of the persons included are deceased They are native North Carolinians no matter where they made the contributions for which they are noted or non natives whose contributions were made in North Carolina American Journal of Physics ,1988 **Fifty Key Thinkers in International Relations** Martin Griffiths,Steven C. Roach,M. Scott Solomon,2008-11-28 Now in its second edition Fifty Key Thinkers in International Relations has been thoroughly updated with several new entries and a new preface to reflect the latest developments There are new sections on Constructivism International Political Theory and English School as well as a range of new thinkers They include Samuel Huntington Christine Sylvester J rgen Habermas John Rawls Barry Buzan Fully cross referenced throughout this book has everything for students of politics and international relations or indeed anyone who wants to gain an understanding of how nations can work together successfully Resources in Education ,1998 Applied Mechanics Reviews ,1964 Subject Guide to Books in Print ,1991 Scientific and Technical Aerospace Reports ,1992 *In Between Communication Theories Through One Hundred Questions* Tomas Kačerauskas,Algis Mickūnas,2020-03-02 This book takes the form of a dialogue It presents two authors specialized in the phenomenolog posing questions to each other and offering complex answers for critical discussion The book includes both presentation of different communication schools and philosophizing on the issues of communication The authors debate numerous topics by providing the definition and etymology of communication examining the limits of communication and using a poli logical base of communication The issue which pervades all domains is that of mediation how things such as identities styles and bodies are mediated by culture history and tradition and what the limits are of such mediation This question leads to more complex issues of mediated mediations such that an explication of one medium is framed by another medium leading to a question of meta language as a fundamental unmediated medium This involves some fine points of mediation perspectivity discursivity ethics of communication ideology private and public Throughout the mutual interrogative dialogue the authors touch upon but avoid the daunting commitment to a theory of metacommunication as well as the transcendental problematic of accessing the numerous theoretical thematic and historical aspects of communication **ERDA Energy Research Abstracts** ,1983 Physical Theory and its Interpretation William Demopoulos,Itamar Pitowsky,2006-11-03 JeffandImetwhenIwasagraduatestudentattheUniversityofMinnesotaandhewas a post doctoral fellow first in the Chemistry Department and then in the Center for Philosophy of Science Later we were colleagues atWestern Ontario Our friendship and collaboration owe a great deal to both these institutions In the mid 1960s the Center enjoyed great success under Feigl s

directorship The history of the Center has been only very partially documented Feyerabend's recollections reported in his Autobiography and some years earlier in his remarks for Feigl's *Festschrift* possess an immediacy that makes them particularly noteworthy even if all too brief The Center was the first American institution of its kind and a bastion of positivist and neo positivist thought At the time Jeff and I were there the staff included in addition to Feigl and Maxwell Paul Meehl Roger Steuwer and Keith Gunderson There were many enthusiastic graduate students and there was participation on occasion from the members of the Philosophy Department as well as the departments of physics psychology mathematics and chemistry The extent to which this to us ideal environment was held together by the force of Feigl's personality became evident only many years later The political liberalism of the Viennese Positivists was very much reflected in the philosophical atmosphere Feigl created an atmosphere that was marked by openness collegiality and intellectual freedom Combined with its excellent permanent faculty and steady stream of distinguished visitors the Center was especially well suited to Jeff's and my early friendship our analytic and speculative interests and our early collaboration This collaboration was continued when we were members of the Philosophy Department at Western Ontario *Books in Print*, 1981 *Terms of Inquiry* James W. Davis, 2005-06-07 Introduction Of concepts and conceptualization Scientific concepts and the study of politics If maybe Social behavior and the indeterminacy of norms Methods for the production of practical knowledge How Humans Recognize Objects: Segmentation, Categorization and Individual Identification Chris Fields, 2016-08-18 Human beings experience a world of objects bounded entities that occupy space and persist through time Our actions are directed toward objects and our language describes objects We categorize objects into kinds that have different typical properties and behaviors We regard some kinds of objects each other for example as animate agents capable of independent experience and action while we regard other kinds of objects as inert We re identify objects immediately and without conscious deliberation after days or even years of non observation and often following changes in the features locations or contexts of the objects being re identified Comparative developmental and adult observations using a variety of approaches and methods have yielded a detailed understanding of object detection and recognition by the visual system and an advancing understanding of haptic and auditory information processing Many fundamental questions however remain unanswered What for example physically constitutes an object How do specific classically characterizable object boundaries emerge from the physical dynamics described by quantum theory and can this emergence process be described independently of any assumptions regarding the perceptual capabilities of observers How are visual motion and feature information combined to create object information How are the object trajectories that indicate persistence to human observers implemented and how are these trajectory representations bound to feature representations How for example are point light walkers recognized as single objects How are conflicts between trajectory driven and feature driven identifications of objects resolved for example in multiple object tracking situations Are there separate what and where processing streams for haptic and auditory perception

Are there haptic and or auditory equivalents of the visual object file Are there equivalents of the visual object token How are object identification conflicts between different perceptual systems resolved Is the common assumption that persistent object is a fundamental innate category justified How does the ability to identify and categorize objects relate to the ability to name and describe them using language How are features that an individual object had in the past but does not have currently represented How are categorical constraints on how objects move or act represented and how do such constraints influence categorization and the re identification of individuals How do human beings re identify objects including each other as persistent individuals across changes in location context and features even after gaps in observation lasting months or years How do human capabilities for object categorization and re identification over time relate to those of other species and how do human infants develop these capabilities What can modeling approaches such as cognitive robotics tell us about the answers to these questions Primary research reports reviews and hypothesis and theory papers addressing questions relevant to the understanding of perceptual object segmentation categorization and individual identification at any scale and from any experimental or modeling perspective are solicited for this Research Topic Papers that review particular sets of issues from multiple disciplinary perspectives or that advance integrative hypotheses or models that take data from multiple experimental approaches into account are especially encouraged

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