

Physics

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(Chapter 1) (Electric Charges and Fields)
(Class 12)

Question 1.13:

Figure shows tracks of three charged particles in a uniform electrostatic field. Give the signs of the three charges. Which particle has the highest charge to mass ratio?



Answer 1.13:

Opposite charges attract each other and same charges repel each other. It can be observed that particles 1 and 2 both move towards the positively charged plate and repel away from the negatively charged plate. Hence, these two particles are negatively charged. It can also be observed that particle 3 moves towards the negatively charged plate and repels away from the positively charged plate. Hence, particle 3 is positively charged.

The charge to mass ratio (emf) is directly proportional to the displacement or amount of deflection for a given velocity. Since the deflection of particle 3 is the maximum, it has the highest charge to mass ratio.

Question 1.14:

Consider a uniform electric field $\mathbf{E} = 3 \times 10^3 \hat{i} \text{ N/C}$.

(a) What is the flux of this field through a square of 10 cm on a side whose plane is parallel to the yz plane?

(b) What is the flux through the same square if the normal to its plane makes a 60° angle with the x -axis?

Answer 1.14:

(a) Electric field intensity, $\mathbf{E} = 3 \times 10^3 \hat{i} \text{ N/C}$

Magnitude of electric field intensity, $|\mathbf{E}| = 3 \times 10^3 \text{ N/C}$

Side of the square, $s = 10 \text{ cm} = 0.1 \text{ m}$

Area of the square, $A = s^2 = 0.01 \text{ m}^2$

The plane of the square is parallel to the y - z plane. Hence, angle between the unit vector normal to the plane and electric field, $\theta = 0^\circ$

Flux (ϕ) through the plane is given by the relation,

$$\phi = |\mathbf{E}|A \cos \theta$$

$$= 3 \times 10^3 \times 0.01 \times \cos 0^\circ = 30 \text{ N m}^2/\text{C}$$

(b) Plane makes an angle of 60° with the x -axis. Hence, $\theta = 60^\circ$

$$\text{Flux, } \phi = |\mathbf{E}|A \cos \theta$$

$$= 3 \times 10^3 \times 0.01 \times \cos 60^\circ$$

$$= 30 \times \frac{1}{2}$$

$$= 15 \text{ N m}^2/\text{C}$$

Question 1.15:

What is the net flux of the uniform electric field of Exercise 1.14 through a cube of side 20 cm oriented so that its faces are parallel to the coordinate planes?

Answer 1.15:

All the faces of a cube are parallel to the coordinate axes. Therefore, the number of field lines entering the cube is equal to the number of field lines piercing out of the cube. As a result, net flux through the cube is zero.

Modern Physics Chapter 1 Notes

L Cohen



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Christianity and Modern Physics Dr. Paul A. Sauer, 2024-09-19 In Christianity and Modern Physics author Dr Paul A Sauer demonstrates the incompatibility of the orthodox Christian doctrine of an omnipotent omniscient omnipresent God with the relativistic theories of Albert Einstein and with the orthodox quantum mechanical theories of the Copenhagen school Thus Christian thinkers who seek to explore alternatives to the relativistic secular Big Bang Theory in cosmology need to develop non relativistic approaches to the topic This book demonstrates the implicitly atheistic foundations of the relativity theories and those of the Copenhagen school of quantum mechanics tracing the progressively corrosive influence of positivistic philosophy upon physics from Mach through Einstein Bohr Heisenberg and their followers *Accessing Technical Education in Modern Japan* Erich Pauer, Regine Mathias, 2025-10-01 This collection of fourteen key papers deriving from CEEJA's second international conference exploring the Japanese history of technology concentrates on the routes to acquiring and transmitting technical knowledge in Japan's modern era from the very earliest endeavours in establishing opportunities for acquiring a technical education to the translation of foreign textbooks and manuals Published in two volumes and thematically structured in three Parts this wide ranging work both complements and expands on the subject matter contained in the first volume entitled Technical Knowledge in Early Modern Japan 2020 **Fullerene Research, 1985-1993** Tibor Braun, 1995 This volume contains very carefully compiled material presenting bibliographic descriptions of approximately 3500 papers with a computer generated index on authors subject headings corporate addresses and journals There are many on line services available on fullerenes but they serve mainly current awareness functions none of them is selectively complete and carefully indexed and none can replace a complete retrospective bibliography which most researchers in the field would want to have on hand in their laboratories and offices *An Introduction to Lagrangian Mechanics* Alain Jean Brizard, 2008 An Introduction to Lagrangian Mechanics begins with a proper historical perspective on the Lagrangian method by presenting Fermat's Principle of Least Time as an introduction to the Calculus of Variations as well as the principles of Maupertuis Jacobi and d'Alembert that preceded Hamilton's formulation of the Principle of Least Action from which the Euler Lagrange equations of motion are derived Other additional topics not traditionally presented in undergraduate textbooks include the treatment of constraint forces in Lagrangian Mechanics Routh's procedure for Lagrangian systems with symmetries the art of numerical analysis for physical systems variational formulations for several continuous Lagrangian systems an introduction to elliptic functions with applications in Classical Mechanics and Noncanonical Hamiltonian Mechanics and perturbation theory This textbook is suitable for undergraduate students who have acquired the mathematical skills needed to complete a course in Modern Physics Listening, Thinking, Being Lisbeth Lipari, 2015-12-07 Although listening is central to human interaction its importance is often ignored In the rush to speak and be heard it is easy to neglect listening and disregard its significance as a way of being with others and the world Drawing

upon insights from phenomenology linguistics philosophy of communication and ethics Listening Thinking Being is both an invitation and an intervention meant to turn much of what readers know or think they know about language communication and listening inside out It is not about how to be a good listener or the numerous pitfalls that stem from the failure to listen Rather the purpose of the book is first to make readers aware of the value and importance of listening as a fundamental human ability inextricably connected with language and thought second to alert readers to the complexity of listening from personal cultural and philosophical perspectives and third to offer readers a way to think of listening as a mode of communicative action by which humans create and abide in the world Lisbeth Lipari brings together historical literary intercultural scientific musical and philosophical perspectives as well as a range of her own personal experiences to produce this highly readable analysis of how the human experience of being as an ethical relation with others is enacted by means of listening

The advanced class-book of modern geography, by W. Hughes and J.F. Williams. By W. Hughes William Hughes, 1908

Physics for Scientists and Engineers with Modern Physics Raymond A. Serway, John W. Jewett, 2004 The Companion Web Site <http://www.pse6.com> newly revised for this edition features student access to Quizzes Web Links Internet Exercises Learning Objectives and Chapter Outlines In addition instructors have password protected access to a downloadable file of the Instructor's Manual a Multimedia Manager demo and PowerPoint files of QUICK QUIZZES

Ghost Particle Alan Chodos, James Riordon, 2023-02-28 The fascinating story of science in pursuit of the ghostly ubiquitous subatomic particle the neutrino Isaac Asimov is said to have observed of the neutrino The only reason scientists suggested its existence was their need to make calculations come out even And yet the nothing particle was not a nothing at all In fact as one of the most enigmatic and most populous particles in the universe about 100 trillion are flying through you every second the neutrino may hold the clues to some of our deepest cosmic mysteries In *Ghost Particle* Alan Chodos and James Riordon recount the dramatic history of the neutrino from the initial suggestion that the particle was merely a desperate solution to a puzzle that threatened to undermine the burgeoning field of particle physics to its modern role in illuminating the universe via neutrino telescopes Alan Chodos and James Riordon are deft and engaging guides as they conduct readers through the experiences of intrepid scientists and the challenges they faced and continue to face in their search for the ghostly neutrino Along the way the authors provide expert insight into the significance of neutrino research from the particle's first momentous discovery to recent revolutionary advances in neutrino detection and astronomy Chodos and Riordon describe how neutrinos may soon provide clues to some of the biggest questions we encounter today including how to understand the dark matter that makes up most of the universe and why anything exists in the universe at all

Heinrich Hertz: Classical Physicist, Modern Philosopher D. Baird, R.I. Hughes, Alfred Nordmann, 1998-01-31 The sub title of this symposium is accurate and in a curious way promises more than it states Classical Physicist Modern Philosopher Heinrich Hertz as the consummate experimentalist of 19th century technique and as brilliant clarifying critic of physical theory of his time achieved one of the

fulfilments but at the same time opened one of the transition points of classical physics Thus in his popular lecture On the Relations Between Light and Electricity at Heidelberg in the Fall of 1889 Hertz identified the ether as henceforth the most fundamental problem of physics as the conceptual mystery but also the key to understanding mass electric ity and gravity Of Hertz s demonstration of electric waves Helmholtz told the Physical Society of Berlin Gentlemen I have to communicate to you today the most important physical discovery of the century Hertz philosophizing in his direct lucid pithy style once wrote We have to imagine Perhaps this is metaphysics on the horizon In the early pages of his Principles of Mechanics we read A doubt which makes an impression on our mind cannot be removed by calling it metaphysical every thoughtful mind as such has needs which scientific men are accustomed to denote as metaphysical PM23 And at another place concerning the terms force and electricity and the alleged mystery of their natures Hertz wrote We have an obscure feeling of this and want to have things cleared up

Metaphysical Foundations Richard Milton Martin,1988 The philosophical papers collected together in this volume cover a variety of topics centering around the three items of the title Mereology the theory of part whole appears and reappears throughout as a kind of basso ostinato for much that is said For its full effect however mereology must be combined with various items treated in metalogic or logical semiotics the modern trivium of syntax semantics and pragmatics When pressed for their total philosophic richness all of these subjects flow over into topics of perennial interest in metaphysics including even metaphysical theology It is thought that the treatment here brings these various subjects together in a new light and in an exact way As a result they are seen to gain in richness scope and depth and a basis provided for the study of how intimately they interanimate each other Each paper here is a critical and or constructive adventure of ideas not necessarily agreeing in all details with every other Even though they are concerned with a considerable variety of philosophical topics there is nonetheless a common methodology throughout namely the logica utens of first order quantification theory or its algebraic surrogate together with the first order metalogic based on it which are thought to provide the bedrock of sound philosophical method This view has been spelled out in considerable detail in the author s previous publications and is further develop here in important ways Richard M Martin s work display a wealth of ideas proposals and formal analyses always on top of the ideal of precision and rigour which were so important to him *Lingua e Stile* 1988 Of interest to Philosophers linguists logicians

Virgil and His Contemporaries St. Louis Public Library. Library School,1927 Educational Times ,1890 **Monthly Bulletin. New Series** St. Louis Public Library,1927 **The Publishers Weekly** ,1884 **The Academy** ,1892 **The Search for Explanation** Michigan State University. Department of Natural Science,1967 **Bookseller** ,1874 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series *Monthly Bulletin* St. Louis Public Library,1927 Teachers bulletin vol 4 issued as part of v 23 no 9 *The Bookseller and the Stationery Trades' Journal* ,1886 Official organ of the book trade of the United Kingdom *The Nation* ,1875

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