

# Coulomb's Law & Electric Fields:

1. Consider a fixed point charge of  $+1.5 \mu\text{C}$  ( $q_1$ ). A 2<sup>nd</sup> charge of  $-0.5 \mu\text{C}$  ( $q_2$ ) is placed at a distance of 0.5 m from  $q_1$ .



a. What is the magnitude and direction of the electric force exerted on  $q_2$  due to  $q_1$ ?

Ans.

$$\vec{F}_e = -k \frac{q_1 q_2}{d^2} \hat{i} = -(8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2}) \frac{(1.5 \times 10^{-6} \text{C})(0.5 \times 10^{-6} \text{C})}{(0.5 \text{m})^2} \hat{i} = -0.0270 \text{N} \hat{i}$$

b. A 3<sup>rd</sup> charge of  $-1.0 \mu\text{C}$  ( $q_3$ ) is placed 0.25 m directly to the right of  $q_2$ . What is the magnitude and direction of the electric force exerted on  $q_3$ ?

Ans.

$$\vec{F}_e = \left( -k \frac{q_1 q_3}{d_{1 \rightarrow 3}^2} + k \frac{q_2 q_3}{d_{2 \rightarrow 3}^2} \right) \hat{i} =$$

Diagram showing three point charges in a horizontal line:  $q_1 = +1.5 \mu\text{C}$ ,  $q_2 = -0.5 \mu\text{C}$ , and  $q_3 = -1.0 \mu\text{C}$ . The distance between  $q_1$  and  $q_2$  is  $d = 0.5 \text{ m}$ , and between  $q_2$  and  $q_3$  is  $d = .25 \text{ m}$ .

$$\vec{F}_e = (8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2}) (1.0 \times 10^{-6} \text{C}) \left( -\frac{(1.5 \times 10^{-6} \text{C})}{(0.75 \text{m})^2} + \frac{(0.5 \times 10^{-6} \text{C})}{(0.25 \text{m})^2} \right) \hat{i} = 0.0479 \text{N} \hat{i}$$

c. If  $q_3$  is exactly halfway between  $q_1$  and  $q_2$ , what is the magnitude and direction of the electric force exerted on  $q_3$ ?

Ans.

$$\vec{F}_e = \left( -k \frac{q_1 q_3}{d_{1 \rightarrow 3}^2} - k \frac{q_2 q_3}{d_{2 \rightarrow 3}^2} \right) \hat{i} =$$

Diagram showing three point charges in a horizontal line:  $q_1 = +1.5 \mu\text{C}$ ,  $q_3$ , and  $q_2 = -0.5 \mu\text{C}$ . The distance between  $q_1$  and  $q_3$  is  $d = .25 \text{ m}$ , and between  $q_3$  and  $q_2$  is  $d = .25 \text{ m}$ .

$$\vec{F}_e = (8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2}) (1.0 \times 10^{-6} \text{C}) \left( -\frac{(1.5 \times 10^{-6} \text{C})}{(0.25 \text{m})^2} - \frac{(0.5 \times 10^{-6} \text{C})}{(0.25 \text{m})^2} \right) \hat{i} = -0.288 \text{N} \hat{i}$$

d. If  $q_3$  is moved 0.3 m downward but still equidistant to  $q_1$  and  $q_2$ , what is the magnitude and direction of the electric force exerted on  $q_3$ ?

Ans.

$$\vec{F}_e = \left( -k \frac{q_1 q_3}{d_{1 \rightarrow 3}^2} - k \frac{q_2 q_3}{d_{2 \rightarrow 3}^2} \right) \hat{i} + \left( -k \frac{q_1 q_3}{d_{1 \rightarrow 3}^2} - k \frac{q_2 q_3}{d_{2 \rightarrow 3}^2} \right) \hat{j} =$$

Diagram showing three point charges forming a triangle:  $q_1 = +1.5 \mu\text{C}$ ,  $q_2 = -0.5 \mu\text{C}$ , and  $q_3$ . The distance between  $q_1$  and  $q_3$  is  $d$ , and between  $q_2$  and  $q_3$  is  $d$ .  $q_3$  is 0.3 m below the line connecting  $q_1$  and  $q_2$ .

$$\vec{F}_e = -0.288 \text{N} \hat{i} + (8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2}) (1.0 \times 10^{-6} \text{C}) \left( \frac{(1.5 \times 10^{-6} \text{C})}{(0.30 \text{m})^2} - \frac{(0.5 \times 10^{-6} \text{C})}{(0.30 \text{m})^2} \right) \hat{j}$$

$$\vec{F}_e = -0.288 \text{N} \hat{i} - 0.010 \text{N} \hat{j}$$

# Electrostatic Electric Field Practice Exercises Answer Key

**Maosheng Zheng, Jie Yu**



## **Electrostatic Electric Field Practice Exercises Answer Key:**

AP Physics C Premium, 2024: 4 Practice Tests + Comprehensive Review + Online Practice Robert A. Pelcovits, Joshua Farkas, 2023-07-04 Provides a comprehensive review of the topics covered on the exam study and test taking strategies four full length practice tests and online practice with a timed test option and scoring Class 11-12 Physics MCQ (Multiple Choice Questions) Arshad Iqbal, 2019-05-17 The Class 11 12 Physics Multiple Choice Questions MCQ Quiz with Answers PDF College Physics MCQ PDF Download Quiz Questions Chapter 1 13 Practice Tests with Answer Key Physics Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Class 11 12 Physics MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Class 11 12 Physics MCQ PDF book helps to practice test questions from exam prep notes The Class 11 12 Physics MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Class 11 12 Physics Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Applied physics motion and force work and energy atomic spectra circular motion current electricity electromagnetic induction electromagnetism electronics electrostatic fluid dynamics measurements in physics modern physics vector and equilibrium tests for college and university revision guide Class 11 12 Physics Quiz Questions and Answers PDF free download eBook sample covers beginner s solved questions textbook s study notes to practice online tests The book Grade 11 12 Physics MCQs Chapter 1 13 PDF includes college question papers to review practice tests for exams Class 11 12 Physics Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for NEET MCAT SAT ACT GATE IPhO competitive exam College Physics Mock Tests Chapter 1 13 eBook covers problem solving exam tests from physics textbook and practical eBook chapter wise as Chapter 1 Motion and Force MCQs Chapter 2 Work and Energy MCQs Chapter 3 Atomic Spectra MCQs Chapter 4 Circular Motion MCQs Chapter 5 Current and Electricity MCQs Chapter 6 Electromagnetic Induction MCQs Chapter 7 Electromagnetism MCQs Chapter 8 Electronics MCQs Chapter 9 Electrostatic MCQs Chapter 10 Fluid Dynamics MCQs Chapter 11 Measurements in Physics MCQs Chapter 12 Modern Physics MCQs Chapter 13 Vector and Equilibrium MCQs The Motion and Force MCQ PDF e Book Chapter 1 practice test to solve MCQ questions on Newton s laws of motion projectile motion uniformly accelerated motion acceleration displacement elastic and inelastic collisions fluid flow momentum physics equations rocket propulsion velocity formula and velocity time graph The Work and Energy MCQ PDF e Book Chapter 2 practice test to solve MCQ questions on Energy conservation of energy non conventional energy sources work done by a constant force work done formula physics problems and power The Atomic Spectra MCQ PDF e Book Chapter 3 practice test to solve MCQ questions on Bohr s atomic model electromagnetic spectrum inner shell transitions and laser The Circular Motion MCQ PDF e Book Chapter 4 practice test to solve MCQ questions on Angular velocity linear velocity angular acceleration angular displacement law of conservation of angular momentum

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has been thoroughly updated for the current Physics GRE It contains carefully selected review material matched to all of the topics covered as well as tips and tricks to help solve problems under time pressure It features three full length practice exams revised to accurately reflect the difficulty of the current test with fully worked solutions so that students can simulate taking the test review their preparedness and identify areas in which further study is needed Written by working physicists who took the Physics GRE for their own graduate admissions to the Massachusetts Institute of Technology this self contained reference guide will help students achieve their best score

**Analysis and Computation of Electric and Magnetic Field Problems** K. J. Binns, P. J. Lawrenson, 2013-10-22 Analysis and Computation of Electric and Magnetic Field Problems Second Edition is a comprehensive treatment of both analytical and numerical methods for the derivation of two dimensional static and quasi static electric and magnetic fields The essence of each method of solution is emphasized and the scopes of the different methods are described with particular regard to the influence of digital computers This book is comprised of 12 chapters and begins with an introduction to the fundamental theory of electric and magnetic fields The derivation of quantities of physical interest such as force inductance and capacitance from the field solution is explained The next section deals with the methods of images and separation of variables and presents direct solutions of Laplace's equation and of Poisson's equation The basic solutions are developed rigorously from considerations of surface charges and are expressed in complex variable form Subsequent chapters discuss transformation methods as well as line and doublet sources the transformation of regions exterior to finite boundaries and the powerful numerical methods used to enlarge the scope of conformal transformation The last section is devoted to finite difference methods and the Monte Carlo method along with all classes of boundary shape and condition This monograph is intended primarily for engineers physicists and mathematicians as well as degree students towards the end of their courses

*200 Puzzling Physics Problems* P. Gnädig, G. Honyek, K. F. Riley, 2001-08-13 This book will strengthen a student's grasp of the laws of physics by applying them to practical situations and problems that yield more easily to intuitive insight than brute force methods and complex mathematics These intriguing problems chosen almost exclusively from classical non quantum physics are posed in accessible non technical language requiring the student to select the right framework in which to analyse the situation and decide which branches of physics are involved The level of sophistication needed to tackle most of the two hundred problems is that of the exceptional school student the good undergraduate or competent graduate student The book will be valuable to undergraduates preparing for general physics papers It is hoped that even some physics professors will find the more difficult questions challenging By contrast mathematical demands are minimal and do not go beyond elementary calculus This intriguing book of physics problems should prove instructive challenging and fun

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**Theory for Engineering Practice** Maosheng Zheng,Jie Yu,2024-12-02 This book presents cognition of the universality of systems theory thinking by using some ordinary physical phenomena and their methods in study of which the involved treatments are consistent with the viewpoint of systems theory It contains the collective actions of classical vibration of many bodies and wave the extreme value problem in natural world status of electrons in atom molecule and metals Ising model in phase transition and elementary excitation in solid multi objective optimization in a system description of effective media approximation certainty in uncertain phenomena all these reflect the cooperative synergetic effects wholeness of group actions unity of opposites inside a system and collective phenomena in a system completely The relevant methodologies for systems theory are organic combination and synergism of both reductionism and holism instead of confrontation or separation of them which could be used in dealing with analogous problems in systems science and engineering fields in response to the idiom of stones from other hills being good for polishing this jade and comprehend by analogy so as to promote the transformation of wisdom to productivity The authors wish this work could play its role as a paving stone to serve the research and application of systems theory This book can be used as a textbook for postgraduate and advanced undergraduate students in relevant majors and a reference book for scientists and practitioners in related fields

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*Physics C Exam* Steven A. Leduc, Paul Waechtler, 2009 2 full length practice tests engaging subject review of core topics and provides study skills and test prep techniques

**Canned Citrus Processing**, 2015-11-18 Citrus is one of the most popular fruits around the world and can be successfully cultivated in more than 140 countries Producing 75% of citrus consumed in the global market China has become the new Kingdom of Canned Citrus Canned Citrus Processing Techniques Equipment and Food Safety comprehensively presents the technical and development trends of the canned citrus industry This book provides solutions to typical problems of canned citrus manufacturing and processing presents an overview of the canned citrus industry introduces canned citrus processing machinery and equipment and discusses the processing quality safety control and related standards Presents an overview of the canned citrus industry Introduces advanced processing methods machinery and equipment of canned citrus Discusses processing quality and safety control corresponding domestic and international standards in the canned citrus industry

Basic Physics Kongbam Chandramani Singh, 2009-12 As per the CBSE course structure this well written textbook is meant for Class XII of Senior Secondary Schools under the 10 2 pattern of education It will also fulfill the requirement of various examinations faced by the students at 10 2 level The primary objective of this book is to help students develop a clear and logical understanding of the concepts of physics The pedagogy followed in the book would help the students to have a firm grip on the fundamentals of physics The subject matter has been presented in simple language with a wide coverage from introductory to advanced level This title includes 450 solved numerical problems 300 unsolved numerical problems for practice 550 very short questions with answers 750 multiple choice questions with answers and questions from last seven years CBSE examination papers Besides this each chapter contains a Summary that reviews the important concepts and equations Questions asked in various examinations CBSE Medical and Engineering have been carefully embedded into various chapters as their parts

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