

Coulomb's Law & Electric Fields:

1. Consider a fixed point charge of $+1.5 \mu\text{C}$ (q_1). A 2nd 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 3rd 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 .

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

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

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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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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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