

# CHAPTER-14

### ELECTROSTATICS

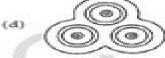
EXERCISE LEVEL-1

Three positive charges of equal value q are placed at the vertices of an equilateral triangle. The resulting lines of force should be sketched as in









2. Two point charges Q and -3Q are placed at some distance apart. If the electric field at the location of Q is E then at the locality of -3Q, it is

(a) -E

(b) E/3

(c) -3E

(d) - E/3

Two small conducting spheres are connected to the ends of the two identical springs as shown. 28. The spacing between the spheres is 0.05 m. On charging each sphere to +1.6 µC, the separation

between the spheres doubles. The spring constants of each spring is

(a) 46 N m-1

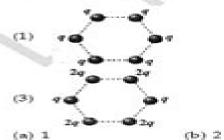
(b) 92 N m -4

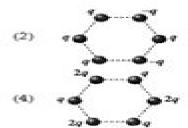
(c) 23 N m<sup>-1</sup>

(d) 920 N m<sup>-9</sup>

Figures below show regular hexagons, with charges at the vertices. In which of the following cases

the electric field at the centre is not zero





(e) 3

(d)4.

# **Ch22 Electrostatics Exercise Answers**

Stephen J. Blundell,Roberto De Renzi,Tom Lancaster,Francis L. Pratt

#### **Ch22 Electrostatics Exercise Answers:**

Electricity and Electronics, Problems and Exercises Manual NEWMAN, 1994-12-07 **Muon Spectroscopy** Stephen J. Blundell, Roberto De Renzi, Tom Lancaster, Francis L. Pratt, 2022-07-14 Muons radioactive particles produced in accelerators have emerged as an important tool to study problems in condensed matter physics and chemistry Beams of muons with all their spins polarized can be used to investigate a variety of static and dynamic effects and hence to deduce properties concerning magnetism superconductivity molecular or chemical dynamics and a large number of other phenomena The technique was originally the preserve of a few specialists located in particle physics laboratories Today it is used by scientists from a very wide range of scientific backgrounds and interests This modern pedagogic introduction to muon spectroscopy is written with the beginner in the field in mind but also aims to serve as a reference for more experienced researchers. The key principles are illustrated by numerous practical examples of the application of the technique to different areas of science and there are many worked examples and problems provided to test understanding The book vividly demonstrates the power of the technique to extract important information in many different scientific contexts all stemming ultimately from the exquisite magnetic sensitivity of the implanted muon spin Calculus Problem Workbook for Hecht's Physics Eugene Hecht.Zvonimir Hlousek.1996 Essential University Physics Richard Wolfson, 2007 Richard Wolfson sEssential University Physicsis a concise and progressive calculus based physics textbook that offers clear writing great problems and interesting real life applications At nearly half the length and half the price of other physics texts on the market Essential University Physicsis a compelling alternative for professors who want to focus on the fundamentals Doing Physics 1 Mechanics Motion in a Straight Line Motion in Two and Three Dimensions Force and Motion Using Newton's Laws Work Energy and Power Conservation of Energy Gravity Systems of Particles Rotational Motion Rotational Vectors and Angular Momentum Static Equilibrium Part 2 Oscillations Waves and Fluids Oscillatory Motion Wave Motion Fluid Motion Thermodynamics Temperature and Heat The Thermal Behavior of Matter Heat Work and the First Law of Thermodynamics The Second Law of ThermodynamicsFor all readers interested in calculus based physic **Physics** James S. Walker, 2006 Walker uses an integrated suite of tools worked Examples Active Examples and Conceptual Checkpoints to make conceptual understanding an integral part of solving quantitative problems The pedagogy and approach are based on over 20 years of teaching and reflect the results of physics education research **Fundamentals of Physics, Alternate Edition -Preliminary part 3** Karen Cummings, David Halliday, Robert Resnick, Jearl Walker, 2001-03-07 **Chemistry** Theodore Lawrence Brown.1988 **Problems In Electrostatics** M.G. Raj, Raj M G,1998-01-01 Problems In Electrostatics Contain Many Problems And Their Accurate Solutions On Electrostatics Electrostatics Interactions And Electrodynamics The Students And Teachers In Physics Chemistry And Electrical Electronic Engineering Will Find This Book As A Useful Help Book Simultaneously It Will Prove Informative For Those Appearing For Various Competitive Examinations

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