

Electromagnetism Notes:

Charged Particles, Conductors and Electric and Magnetic Fields – What happens to stationary and moving charged particles when they interact with an electric or magnetic field?

Investigate and quantitatively derive and analyse the interaction between charged particles and uniform electric fields including electric field between parallel charged plates, acceleration of charged particles by the electric field, and work done on the charge.

Electric field between parallel charged plates $E = V/d$:

- Positive particles have vector fields going out of the charge
- Negative particles have vector fields going into the charge
- More vector lines = higher magnitude \rightarrow stronger field strength
- uniform electric fields are constant (vector lines equally separated)

Equation:

- E = electric field strength
- V = potential difference of charges
- d = distance in metres
- e.g. Two parallel plates, separated by 5mm, are connected to terminals of 3000V DC supply. Calculate the strength of the field between them:
 - o $E = ?$
 - o $V = 3000$
 - o $d = 5\text{mm} = 5 \times 10^{-3}\text{m}$
 - o $E = V/d$
 - o $= 3000 / 5 \times 10^{-3}$
 - o $= 600\,000 \text{ V/m}^2$

Acceleration of charged particles by the electric field:

- $F_{\text{net}} = qE = qV/d = ma$
- E.g. find the acceleration of an alpha particle between two parallel plates with potential difference 3000V separated by 5mm
 - o Alpha particle charge = $+2e = 2(1.602 \times 10^{-19}) = 3.204 \times 10^{-19} \text{ C}$
 - o $V = 3000$
 - o $d = 0.005$
 - o $m = 2p^+ + 2n^0 = 2(1.675 \times 10^{-27}) + 2(1.673 \times 10^{-27}) = 6.696 \times 10^{-27} \text{ kg}$
 - o $qV/d = ma$
 - o $(3.204 \times 10^{-19} \times 3000) / 0.005 = a \times 6.696 \times 10^{-27}$
 - o $a = 2.87 \times 10^{12} \text{ ms}^{-2}$

Work done on the charge:

- $W = qV = qEd$
- $K = \frac{1}{2}mv^2$

Electromagnetism Study Guide Answer

Michael J. Padilla



Electromagnetism Study Guide Answer:

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Electricity and Magnetism Anthea Maton, 1994 Reviewed in The Textbook Letter 3 4 94 **Resources for Teaching Middle School Science** Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the

National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents Hawkins Electrical Guide Nehemiah Hawkins, 1914 Prentice Hall Science Explorer Michael J. Padilla, 2002 *Study Guide for the Mainstream of Physics* Arthur Beiser, Germaine Beiser, 1962 Schaum's Outline of Electromagnetics Joseph A. Edminister, Joseph Edminister, 1995 Confusing Textbooks Missed Lectures Tough Test Questions Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you Practice problems with full explanations that reinforce

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enough to make the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of principles and their applications are usually not discussed and it is left to the reader to discover this while doing exercises. Accordingly, the average student is expected to rediscover that which has long been established and practiced but not always published or adequately explained. The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations. Poorly solved examples such as these can be presented in abbreviated form which leaves out much explanatory material between steps and as a result requires the reader to figure out the missing information. This leaves the reader with an impression that the problems and even the subject are hard to learn completely the opposite of what an example is supposed to do. Poor examples are often worded in a confusing or obscure way. They might not state the nature of the problem or they present a solution which appears to have no direct relation to the problem. These problems usually offer an overly general discussion never revealing how or what is to be solved. Many examples do not include accompanying diagrams or graphs denying the reader the exposure necessary for drawing good diagrams and graphs. Such practice only strengthens understanding by simplifying and organizing electromagnetics processes. Students can learn the subject only by doing the exercises themselves and reviewing them in class, obtaining experience in applying the principles with their different ramifications. In doing the exercises by themselves, students find that they are required to devote considerable more time to electromagnetics than to other subjects because they are uncertain with regard to the selection and application of the theorems and principles involved. It is also often necessary for students to discover those tricks not revealed in their texts or review books that make it possible to solve problems easily. Students must usually resort to methods of trial and error to discover these tricks; therefore, finding out that they may sometimes spend several hours to solve a single problem. When reviewing the exercises in classrooms, instructors usually request students to take turns in writing solutions on the boards and explaining them to the class. Students often find it difficult to explain in a manner that holds the interest of the class and enables the remaining students to follow the material written on the boards. The remaining students in the class are thus too occupied with copying the material off the boards to follow the professor's explanations. This book is intended to aid students in electromagnetics overcome the difficulties described by supplying detailed illustrations of the solution methods that are usually not apparent to students. Solution methods are illustrated by problems that have been selected from those most often assigned for class work and given on examinations. The problems are arranged in order of complexity to enable students to learn and understand a particular topic by reviewing the problems in sequence. The problems are illustrated with detailed step by step explanations to save the students large amounts of time that is often needed to fill in the gaps that are usually found between steps of illustrations in textbooks or review outline books. The staff of REA considers electromagnetics a

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