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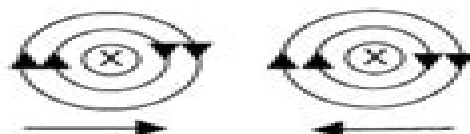
CHAPTER 21: ELECTROMAGNETISM ANSWERS

Name: _____ () Class: _____ Date: _____

Exercise 21A: Force on a current-carrying conductor

1. Draw the field lines and the directions which the current carrying conductors will move.

(a)



(b)



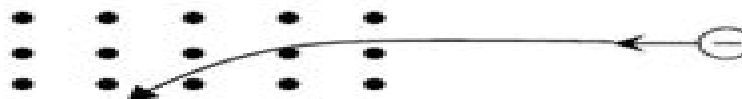
(c) (i)



(c) (ii) State three ways in which the force in part (i) can be increased. [3]

- Use a stronger magnet
- Increase current
- Have a soft iron core in between wires

2. Magnetic field is directed out of the paper. Draw the path of the electron in the magnetic field.



Section 21 1 Electromagnetism Answers

Wan Yong Loo



Section 21 1 Electromagnetism Answers:

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potential energy and transfer of energy Classical Electromagnetism in a Nutshell Anupam Garg, 2012-04-08 A comprehensive modern introduction to electromagnetism This graduate level physics textbook provides a comprehensive treatment of the basic principles and phenomena of classical electromagnetism While many electromagnetism texts use the subject to teach mathematical methods of physics here the emphasis is on the physical ideas themselves Anupam Garg distinguishes between electromagnetism in vacuum and that in material media stressing that the core physical questions are different for each In vacuum the focus is on the fundamental content of electromagnetic laws symmetries conservation laws and the implications for phenomena such as radiation and light In material media the focus is on understanding the response of the media to imposed fields the attendant constitutive relations and the phenomena encountered in different types of media such as dielectrics ferromagnets and conductors The text includes applications to many topical subjects such as magnetic levitation plasmas laser beams and synchrotrons Classical Electromagnetism in a Nutshell is ideal for a yearlong graduate course and features more than 300 problems with solutions to many of the advanced ones Key formulas are given in both SI and Gaussian units the book includes a discussion of how to convert between them making it accessible to adherents of both systems Offers a complete treatment of classical electromagnetism Emphasizes physical ideas Separates the treatment of electromagnetism in vacuum and material media Presents key formulas in both SI and Gaussian units Covers applications to other areas of physics Includes more than 300 problems

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problems in wave propagation and radiation Accomplished researcher and educator Carlo G Someda uses a modern approach to the subject Unlike other books in the field it surveys all major areas of electromagnetic waves in a single treatment The book begins with a detailed treatment of the mathematics of Maxwell s equations It follows with a discussion of polarization delves into propagation in various media devotes four chapters to guided propagation links the concepts to practical applications and concludes with radiation diffraction coherence and radiation statistics This edition features many new and reworked problems updated references and suggestions for further reading a completely revised appendix on Bessel functions and new definitions such as antenna effective height Illustrating the concepts with examples in every chapter Electromagnetic Waves Second Edition is an ideal introduction for those new to the field as well as a convenient reference for seasoned professionals

JEE Main Physics Integer Type Questions Disha Experts,2019-12-24 *Modern Electromagnetic Scattering Theory with Applications* Andrey V. Osipov,Sergei A. Tretyakov,2017-04-17 This self contained book gives fundamental knowledge about scattering and diffraction of electromagnetic waves and fills the gap between general electromagnetic theory courses and collections of engineering formulas The book is a tutorial for advanced students learning the mathematics and physics of electromagnetic scattering and curious to know how engineering concepts and techniques relate to the foundations of electromagnetics

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Section 21 1 Electromagnetism Answers Introduction

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