

D2: Electromagnetism [83 marks]

1. [Maximum mark: 1]

SPM.1A.HLTZ0.24

A solid metallic sphere is positively charged and isolated from all other charges.

The electric potential due to the sphere

- A. is constant inside the sphere.
- B. is constant outside the sphere.
- C. is smallest at the surface of the sphere.
- D. increases with distance from the sphere.

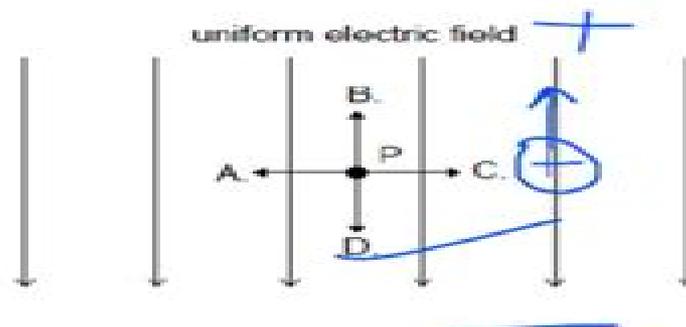
[1]

2. [Maximum mark: 1]

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P is a point in a uniform electric field.

What is the direction in which the electric potential increases at P?



[1]

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**Andrea Macchi, Giovanni
Moruzzi, Francesco Pegoraro**



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Teaching Electromagnetics Krishnasamy T. Selvan, Karl F. Warnick, 2021-06-17 Teaching Electromagnetics Innovative Approaches and Pedagogical Strategies is a guide for educators addressing course content and pedagogical methods primarily at the undergraduate level in electromagnetic theory and its applications Topics include teaching methods lab experiences and hands on learning and course structures that help teachers respond effectively to trends in learning styles and evolving engineering curricula The book grapples with issues related to the recent worldwide shift to remote teaching Each chapter begins with a high level consideration of the topic reviews previous work and publications and gives the reader a broad picture of the topic before delving into details Chapters include specific guidance for those who want to implement the methods and assessment results and evaluation of the effectiveness of the methods Respecting the limited time available to the average teacher to try new methods the chapters focus on why an instructor should adopt the methods proposed in it Topics include virtual laboratories computer assisted learning and MATLAB tools The authors also review flipped classrooms and online teaching methods that support remote teaching and learning The end result should be an impact on the reader represented by improvements to his or her practical teaching methods and curricular approach to electromagnetics education The book is intended for electrical engineering professors students lab instructors and practicing engineers with an interest in teaching and learning In summary this book Surveys methods and tools for teaching the foundations of wireless communications and electromagnetic theory Presents practical experience and best practices for topical coverage course sequencing and content Covers virtual laboratories computer assisted learning and MATLAB tools Reviews flipped classroom and online teaching methods that support remote teaching and learning Helps instructors in RF systems field theory and wireless communications bring their teaching practice up to date Dr Krishnasamy T Selvan is Professor in the Department of Electronics Communication Engineering SSN College of Engineering since June 2012 Dr Karl F Warnick is Professor in the Department of Electrical and Computer Engineering at BYU

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accessible at the undergraduate level Electromagnetism Hiqmet Kamberaj,2022-04-14 Any curriculum involving science and or engineering will eventually find itself entering the realm of physics This book seeks to introduce students to a number of the fundamental concepts in physics and illustrate how different theories were developed out of physical observations and phenomena The book presents multi chapter sections on electrostatics magnetism and electromagnetic waves with eyes on both the past and the future touching along the way on Coulomb Gauss Maxwell Ohm Biot Savart Ampere Faraday Fresnel and Lorentz The book also contains an appendix that provides the reader with a portion of the mathematical background of vector analysis and vector differential operators The book approaches its topics through a focus on examples and problem solving techniques illustrating vividly how physical theories are applied to problems in engineering and science The book is primarily aimed at undergraduate students in these two fields but it also features chapters that are geared towards senior undergraduates working on their final year theses Commerce Business Daily ,1998-03 Solved Problems in Classical Electromagnetism Jerrold Franklin,2018-09-12 Companion to Classical Electromagnetism Second Edition which features only basic answers This book contains some problems from the companion volume plus many new ones all with complete worked out solutions 2018 edition **Schaum's Outline of Theory and Problems of Vector Analysis and an Introduction to Tensor Analysis** Murray R. Spiegel,1959 This book introduces students to vector analysis a concise way of presenting certain kinds of equations and a natural aid for forming mental pictures of physical and geometrical ideas Students of the physical sciences and of physics mechanics electromagnetic theory aerodynamics and a number of other fields will find this a rewarding and practical treatment of vector analysis Key points are made memorable with the hundreds of problems with step by step solutions and many review questions with answers **Problems in Classical Electromagnetism** Andrea Macchi,Giovanni Moruzzi,Francesco Pegoraro,2017-12-10 This book contains 157 problems in classical electromagnetism most of them new and original compared to those found in other textbooks Each problem is presented with a title in order to highlight its inspiration in different areas of physics or technology so that the book is also a survey of historical discoveries and applications of classical electromagnetism The solutions are complete and include detailed discussions which take into account typical questions and mistakes by the students Without unnecessary mathematical complexity the problems and related discussions introduce the student to advanced concepts such as unipolar and homopolar motors magnetic monopoles radiation pressure angular momentum of light bulk and surface plasmons radiation friction as well as to tricky concepts and ostensible ambiguities or paradoxes related to the classical theory of the electromagnetic field With this approach the book is both a teaching tool for undergraduates in physics mathematics and electric engineering and a reference for students wishing to work in optics material science electronics plasma physics **Electromagnetism** Carolina C Ilie,Zachariah S Schrecengost,2016-11-01 Electromagnetism Problems and solutions is an ideal companion book for the undergraduate student sophomore junior or senior who may want to work on more problems and receive immediate feedback while studying

Each chapter contains brief theoretical notes followed by the problem text with the solution and ends with a brief bibliography. Also presented are problems more general in nature which may be a bit more challenging.

Solved Problems in Classical Electromagnetism J. Pierrus, 2018-08-02. Classical electromagnetism, one of the fundamental pillars of physics, is an important topic for all types of physicists, from the theoretical to the applied. The subject is widely recognized to be one of the most challenging areas of the physics curriculum, both for students to learn and for lecturers to teach. Although textbooks on electromagnetism are plentiful, hardly any are written in the question and answer style format adopted in this book. It contains nearly 300 worked questions and solutions in classical electromagnetism and is based on material usually encountered during the course of a standard university physics degree. Topics covered include some of the background mathematical techniques: electrostatics, magnetostatics, elementary circuit theory, electrodynamics, electromagnetic waves, and electromagnetic radiation. For the most part, the book deals with the microscopic theory, although we also introduce the important subject of macroscopic electromagnetism as well. Nearly all questions end with a series of comments whose purpose is to stimulate inductive reasoning and reach various important conclusions arising from the problem. Occasionally, points of historical interest are also mentioned. Both analytical and numerical techniques are used in obtaining and analyzing solutions. All computer calculations are performed with Mathematica^{CO} and the relevant code is provided in a notebook, either in the solution or the comments.

Problems And Solutions On Electromagnetism (this Volume Comprises 440 Problems And Is Divided Into Five Parts), *Problems in Classical Electromagnetism* Andrea Macchi, Giovanni Moruzzi, Francesco Pegoraro, 2023-05-29. This second edition adds 46 new problems for a total of 203. The solutions to certain old problems have been revised for improved clarity in response to questions and comments from our students, second-year students in the Master's in Physics program. Each problem is given a title indicating its relation to the various areas of physics or technology. By tackling the problems presented here, students are gently introduced to advanced topics such as unipolar and homopolar motors, magnetic monopoles, radiation pressure, angular momentum of light, bulk and surface plasmons, and radiation friction. We also address a number of tricky concepts and apparent ambiguities and paradoxes encountered in the classical theory of electromagnetism, with a particular focus on conservation laws and transformation properties between different frames of reference. At the same time, the book can be used as an introduction to applications of classical electromagnetism, including cutting-edge topics like plasmonics, metamaterials, and light-driven propulsion. While unnecessary mathematical complexity is avoided, the new edition also provides a few introductory examples concerning elegant and powerful solution techniques. Hopefully, the second edition offers an even better teaching tool for undergraduates in physics, mathematics, and electric engineering, and a valuable reference guide for students planning to work in optics, material science, electronics, and plasma physics.

Solved Problems in Classical Electromagnetism John Pierrus, 2018. Classical electromagnetism, one of the fundamental pillars of physics, is an important topic for all types of physicists, from the

theoretical to the applied Although there are many books on this subject hardly any are written in the question and answer style format adopted in this book *ELECTROMAGNETISM: PROBLEMS WITH SOLUTIONS* PRAMANIK, ASHUTOSH, 2012-09-03 This Third Edition of the book contains more than 60 new problems over and above the original 480 problems of the Second Edition The additional problems cover the whole range of new topics which will also be introduced in the third edition of the author's main textbook titled *Electromagnetism Theory and Applications* There are some other new problems necessary to further enhance the understanding of the topics of importance already existing in the book There has been no change in the philosophy of this book It has been designed to serve as a companion volume to the main text to help students gain a thorough quantitative understanding of EM concepts that are somewhat difficult to learn The problems included as a result of the author's long industrial and academic experience illuminate the concepts developed in the main text Besides meeting the needs of undergraduate students of electrical engineering and postgraduate students and researchers in physics the book will also be immensely useful to engineers and applied physicists in industry

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- 3 Some problems on applications of vector analysis to different geometrical configurations
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web rusting can be prevented by keeping oxygen or water away from the iron or steel oxygen can be excluded by storing the metal in an atmosphere of unreactive nitrogen or argon a desiccant is a

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web 0 1 to the corrosive medium stop or slow down electrochemical corrosion reactions on a metal surface mechanism corrosion inhibitors work by one or more of the following mechanisms they adsorb on metal surfaces to form protective films they combine with corrosion product films to protect metal surfaces

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