ELECTROMAGNETICS

ELECTRIC FLUX

1. Calculate D in rectangular coordinates at point $P(2, -3, 6)$ produced by a) point charge $Q_A = 55mC$ at $Q(-2, 3, -6)$
b) a uniform line charge $\rho L = 20mC/m$ on the x-axis c) a uniform surface charge density $\rho s = 120\mu C/m^2$ on the plane $z = -5m$

Solution:

a. $R = (2-(-2))a_x + (-3-3)a_y + (6-(-6))a_z$

$R = 4a_x - 6a_y + 12a_z$

$|R| = \sqrt{(4)^2 + (-6)^2 + (12)^2}$

$|R| = 14$

$a_R = \dfrac{R}{|R|} = \dfrac{4a_x - 6a_y + 12a_z}{14} = 0.2857a_x - 0.4286a_y + 0.8571a_z$

$D = \dfrac{Q}{4\pi r^2} a_R$

$D = \dfrac{55mC}{4\pi(14)^2} (0.2857a_x - 0.4286a_y + 0.8571a_z)$

$D = (22.33 \times 10^{-6})(0.2857a_x - 0.4286a_y + 0.8571a_z)$

$\boxed{D = 6.38a_x - 9.57a_y + 19.14 \ \mu C/m^2}$

b. $R = (0-0)a_x + (-3-0)a_y + (6-0)a_z$

$R = -3a_y + 6a_z$

$|R| = \sqrt{(-3)^2 + (6)^2}$

$|R| = 6.708$

8 Solved Problems In Electromagnetics

Matthew N.O. Sadiku

8 Solved Problems In Electromagnetics:

2008+ Solved Problems in Electromagnetics S. A. Nasar,Syed A. Nasar,2008 This book covers the following areas vector analysis electrostatics magnetostatics Maxwell s equation plane waves transmission lines waveguides cavity resonator and antenna **2000 Solved Problems in Electromagnetics** Syed A. Nasar,1992 Computational Electromagnetics Raj Mittra,2013-08-20 Emerging Topics in Computational Electromagnetics in Computational Electromagnetics presents advances in Computational Electromagnetics This book is designed to fill the existing gap in current CEM literature that only cover the conventional numerical techniques for solving traditional EM problems The book examines new algorithms and applications of these algorithms for solving problems of current interest that are not readily amenable to efficient treatment by using the existing techniques The authors discuss solution techniques for problems arising in nanotechnology bioEM metamaterials as well as multiscale problems They present techniques that utilize recent advances in computer technology such as parallel architectures and the increasing need to solve large and complex problems in a time efficient manner by using highly scalable algorithms **Computational Electromagnetics** Thomas Rylander,Pär Ingelström,Anders Bondeson,2012-11-06 Computational Electromagnetics is a young and growing discipline expanding as a result of the steadily increasing demand for software for the design and analysis of electrical devices This book introduces three of the most popular numerical methods for simulating electromagnetic fields the finite difference method the finite element method and the method of moments In particular it focuses on how these methods are used to obtain valid approximations to the solutions of Maxwell s equations using for example staggered grids and edge elements The main goal of the book is to make the reader aware of different sources of errors in numerical computations and also to provide the tools for assessing the accuracy of numerical methods and their solutions To reach this goal convergence analysis extrapolation von Neumann stability analysis and dispersion analysis are introduced and used frequently throughout the book Another major goal of the book is to provide students with enough practical understanding of the methods so they are able to write simple programs on their own To achieve this the book contains several MATLAB programs and detailed description of practical issues such as assembly of finite element matrices and handling of unstructured meshes Finally the book aims at making the students well aware of the strengths and weaknesses of the different methods so they can decide which method is best for each problem In this second edition extensive computer projects are added as well as new material throughout Reviews of previous edition The well written monograph is devoted to students at the undergraduate level but is also useful for practising engineers Zentralblatt MATH 2007 **Generalized Multipole Techniques for Electromagnetic and Light Scattering** T. Wriedt,1999-12-01 This book is an edited volume of nine papers covering the different variants of the generalized multipole techniques GMT The papers were presented at the recent 3rd Workshop on Electromagnetics and Light Scattering Theory and Applications which focused on current GMT methods These include the multiple multipole method MMP the discrete

sources method DSM Yasuura s method method of auxiliary sources and null field method with discrete sources Each paper presents a full theoretical description as well as some applications of the method in electrical engineering and optics It also includes both 2D and 3D methods and other applications developed in the former Soviet Union and Japan *Schaum's Outline of Feedback and Control Systems, Second Edition* Joseph J. DiStefano,Allen Stubberud,Ivan J. Williams,1990 If you want top grades and thorough understanding of feedback and control systems both analog and digital in less study time this powerful study tool is the best tutor you can have It takes you step by step through the subject and gives you accompanying problems with fully worked solutions plus hundreds of additional problems with answers at the end of chapters so you can measure your progress You also get the benefit of clear detailed illustrations Famous for their clarity wealth of illustrations and examples and lack of tedious detail Schaum s Outlines have sold more than 30 million copies worldwide This guide will show you why **Electromagnetics for Engineering Students (Part 2)** Sameir M. Ali Hamed,2018-04-09 Electromagmetics for Engineering Students is a textbook in two parts Part I and II that cover all topics of electromagnetics needed for undergraduate students from vector analysis to antenna principles In both parts of the book the topics are presented in sufficient details such that the students will follow the analytical development easily Each chapter is supported by many illustrative examples solved problems and the end of chapter problems to explain the principles of the topics and enhance the knowledge of the student There are a total of 681 problems in the both parts of the book as follows 162 illustrative examples 88 solved problems and 431 end of chapter problems This part is a continuation of Part I and focuses on the application of Maxwell s equations and the concepts that are covered in Part I to analyze the characteristics of wave propagation in half space and bounded media including metamaterials Moreover a chapter has been devoted to the topic of antennas to provide readers with the fundamental concepts related to antenna engineering The key features of this part In addition to the coverage of classical topics in electromagnetic normally covered in the similar available texts this part of the book adds some advanced concepts and topics such as Application of multi pole expansion for vector potentials More detailed analysis on the topic of waveguides including circular waveguides Refraction through metamaterials and the concept of negative refractive index Detailed and easy to follow presentation of mathematical analyses and problems An appendix of mathematical formulae and functions Schaums Outline of Engineering Economics Jose A. Sepulveda,William E. Souder,Byron S. Gottfried,1984-06-22 Algebraic relationships and solution procedures Discrete periodic compounding Continuous compounding **Schaum's Outline of Basic Mathematics for Electricity and Electronics** Arthur Beiser,1993-03-22 Confusing Textbooks Missed Lectures Not Enough Time 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

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