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~~Chapter 01-a; Vectors~~**Hayt Buck Engineering Electromagnetics 7th**

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Dr. Naser Abu-Zaid; Lecture notes on Electromagnetic Theory(1); Ref:Engineering Electromagnetics; William Hayt& John Buck, 7th & 8th editions; 2012 e 1 Preliminary material (mathematical requirements) Vector: A quantity with both magnitude and direction. (Force F 10N to the east). Scalar:A quantity that does not posses direction, Real or complex. (Temperature T 20o. Vector addition: 1 ...

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1.1. Given the vectors  $M = 10a_x + 4a_y + 8a_z$  and  $N = 8a_x + 7a_y + 2a_z$ , find: a) a unit vector in the direction of  $M + 2N$ .  $M + 2N = 10a_x + 4a_y + 8a_z + 16a_x + 14a_y + 4a_z = (26, 10, 4)$

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D3.2 (a).  $D = ?$  at point  $P(2, -3, 6)$   $Q A = 55 \text{mC}$  at point  $Q(-2, 3, -6)$  now  $D = o E = Q R P Q / (4\pi | R P Q |^3) R P Q = (2 - (-2))^2 a_x + (-3 - 3)^2 a_y + (6 - (-6))^2 a_z$

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An authoritative view of Maxwell's Equations that takes theory to practice Maxwell's Equations is a practical guide to one of the most remarkable sets of equations ever devised. Professor Paul Huray presents techniques that show the reader how to obtain analytic solutions for Maxwell's equations for ideal materials and boundary conditions. These solutions are then used as a benchmark for solving real-world problems. Coverage includes: An historical overview of electromagnetic concepts before Maxwell and how we define fundamental units and universal constants today A review of vector analysis and vector operations of scalar, vector, and tensor products Electrostatic fields and the interaction of those fields with dielectric materials and good conductors A method for solving electrostatic problems through the use of Poisson's and Laplace's equations and Green's function Electrical resistance and power dissipation; superconductivity from an experimental perspective; and the equation of continuity An introduction to magnetism from the experimental inverse square of the Biot-Savart law so that Maxwell's magnetic flux equations can be deduced Maxwell's Equations serves as an ideal textbook for undergraduate students in

junior/senior electromagnetics courses and graduate students, as well as a resource for electrical engineers.

"This is teaching at its best!" --Hans Camenzind, inventor of the 555 timer (the world's most successful integrated circuit), and author of *Much Ado About Almost Nothing: Man's Encounter with the Electron* (Booklocker.com) "A fabulous book: well written, well paced, fun, and informative. I also love the sense of humor. It's very good at disarming the fear. And it's gorgeous. I'll be recommending this book highly."  
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Balanis' second edition of *Advanced Engineering Electromagnetics* – a global best-seller for over 20 years – covers the advanced knowledge engineers involved in electromagnetic need to know, particularly as the topic relates to the fast-moving, continually evolving, and rapidly expanding field of wireless communications. The immense interest in wireless communications and the expected increase in wireless communications systems projects (antenna, microwave and wireless communication) points to an increase in the number of engineers needed to specialize in this field. In addition, the Instructor Book Companion Site contains a rich collection of multimedia resources for use with this text. Resources include: Ready-made lecture notes in Power Point format for all the chapters. Forty-nine MATLAB® programs to compute, plot and animate some of the wave phenomena Nearly 600 end-of-chapter problems, that's an average of 40 problems per chapter (200 new problems; 50% more than in the first edition) A thoroughly updated Solutions Manual 2500 slides for Instructors are included.

This book is aimed to provide the basic preparatory material to the students who wish to study the electromagnetism as part of their course study. In the discussion of different concepts of electromagnetism, use of vectors and coordinates systems are unavoidable. Most of the books avoid details of these topics due to scope of the book or the syllabus. Most of the students take it for granted the formulae stated in the book. Some students when try to understand the three dimensional aspects of the coordinate systems they find some confusion. To help student clear their concepts on these aspects and to answer how different readily given expressions are derived we have come forward to write this book. The book starts discussion from very basic definitions of vector terminology and then relates this with the coordinate systems. Most needed coordinate systems are Cartesian, cylindrical and spherical coordinate systems. These systems are discussed from the basic level and culminate into the derivations of the longer expressions. As problems are already available in the books of similar nature authors have not included them in this book. It is hoped that this book would clear most of the concepts needed to study the electromagnetism.

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