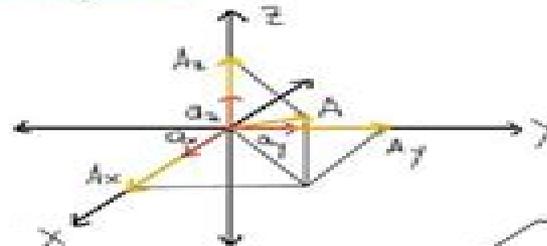# ENGINEERING ELECTROMAGNETICS
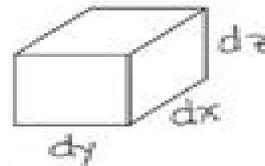
VECTOR ANALYSIS

Cartesian Coordinate System

Given vector:

$$A = A_x\, a_x + A_y\, a_y + A_z\, a_z$$

Differential volume dv: $\boxed{dx\,dy\,dz}$

$$\boxed{|A| = \sqrt{A_x^2 + A_y^2 + A_z^2}} \longrightarrow \text{magnitude of } A$$

$$\boxed{\text{Unit vector in direction of } A = \frac{A}{|A|}}$$

Sample Problem 1:

Given the two vectors: $r_A = -a_x - 3a_y - 4a_z$ and $r_B = 2a_x + 2a_y + 2a_z$ and point $C(1,3,4)$. find : (a) R_{AB} ; (b) $|r_A|$; (c) a_A ; (d) a_{AB} ; (e) a unit vector directed from C toward A.

Solution:

a) $R_{AB} = r_B - r_A = 2a_x + 2a_y + 2a_z - (-a_x - 3a_y - 4a_z)$

$$\boxed{R_{AB} = 3a_x + 5a_y + 6a_z}$$

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Nannapaneni Narayana Rao,1987 **Engineering Electromagnetics. Solutions to Problems** William Hart Hayt,1958 *Solutions Manual, Fundamentals of Engineering Electromagnetics* David Keun Cheng,1993 Cumulative Book Index ,1998 A world list of books in the English language **EDN.** ,1985 *Elements of Engineering Electromagnetics* Nannapaneni Narayana Rao,1977 **Engineering Electromagnetics** Nathan Ida,2013-03-14 The applications involving electromagnetic fields are so pervasive that it is difficult to estimate their contribution to the industrial output generation of electricity power transmission lines electric motors actuators relays radio TV and microwave transmission and reception magnetic storage and even the mundane little magnet used to hold a paper note on the refrigerator are all electromagnetic in nature One would be hard pressed to find a device that works without relaying on any electromagnetic principle or effect This text provides a good theoretical understanding of the electromagnetic field equations but also treats a large number of applications In fact no topic is presented unless it is directly applicable to engineering design or unless it is needed for the understanding of another topic In electrostatics for example the text includes discussions of photocopying ink jet printing electrostatic separation and deposition sandpaper production paint spraying and powder coating In magnetics the applications discussed include electric motors implantable magnets nuclear magnetic resonance magnetic stirring of molten materials and electromagnetic braking and bearings Electric motors and transformers are used to demonstrate the ideas of magnetic forces and torques and of induction the applications discussed include the new super efficient electric drives linear induction motors and implantable transformers to power life sustaining devices The discussion of wave propagation phenomena will include applications of new materials to aerospace systems such as the so called stealth materials as well as the use of electromagnetic weaves for materials processing such as grain drying with microwaves microwave detection of explosives and remote sensing of the earth and its resources Fundamentals of Engineering Electromagnetics David K. Cheng,1993-02 **IEEE Africon** ,2004 **Prob. & Solutions of Engineering Electromagnetics** Exp. Teachers,2007-02 **Fundamentals of Engineering Electromagnetics** David Keun Cheng,2015

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