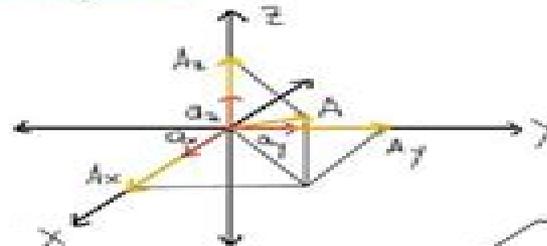


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ENGINEERING ELECTROMAGNETICS

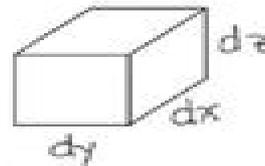
VECTOR ANALYSIS

Cartesian Coordinate System



Given vector:

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

Differential volume dv : $dx dy dz$ 

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

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

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:

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

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

Engineering Electromagnetics Demarest Solution

Léo Pomar



Engineering Electromagnetics Demarest Solution:

Reviewing **Engineering Electromagnetics Demarest Solution**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Engineering Electromagnetics Demarest Solution**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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