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Electromagnetic Theory II - Lecture 23.1

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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 $P(2,-3,6)$ $Q A = 55mC$ at point $Q(-2,3,-6)$ now $D = o E = Q R P Q /(4? | R P Q | 3) R P Q = (2 ? (??)^ a_x + (?3 ? 3)^ a_y + (6 \dots$

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Engineering Electromagnetics is a classic book that provides a comprehensive discussion on core concepts of the subject area. It follows an application-based approach, by supporting theoretical concepts with numerous solved examples and illustrations. This adapted edition focuses on enhancing the electrostatics portion and adding more solved examples. With all its careful revisions, the book is now a more useful resource for students of electrical engineering as well as electronics and communication engineering. Salient Features: 1. In-depth coverage of electrostatics and magnetostatics portions 2. A new chapter on Electromagnetic Radiation and Antennas 3. A focused chapter on Transmission Lines 4. Enhanced discussion on topics like vector analysis, properties of dielectric materials, interpretation of Maxwell's equations, etc. 5. Rich pedagogy: ?100+ solved examples ?100+ drill problems ?500+ review problems

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