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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

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$\nabla \cdot \mathbf{M} + 2N \cdot \nabla \mathbf{M} + 2N = 10a_x + 4a_y + 8a_z + 16a_x + 14a_y + 4a_z = (26, 10, 4)$

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Force Field EMF Solutions In general relativity, an electrovacuum solution (electrovacuum) is an exact solution of the Einstein field equation in which the only nongravitational mass-energy present is the field energy of an

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electromagnetic field, which must satisfy the (curved-spacetime) source-free

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The topic of this book is applied engineering electromagnetics. This



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topic is often described as “the theory of electromagnetic fields and waves,” which is both true and misleading. The truth is that electric fields, magnetic fields, their sources, waves, and the behavior these waves are all topics covered by this book.

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Physical Constants. Quantity. Value.

Electron charge Electron mass



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Permittivity of free space Permeability  
of free space Velocity of light.  $\epsilon =$   
 $(1.602\ 177\ 33 \pm 0.000\ 000\ 46) \times$   
 $10^{-19}\ \text{C m} = (9.109\ 389\ 7 \pm 0.000\ 005$   
 $4) \times 10^{-31}\ \text{kg} \ 0 = 8.854\ 187\ 817 \times$   
 $10^{-12}\ \text{F/m} \ \mu_0 = 4 \dots$

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## 16.3: Plane Electromagnetic Waves.

Mechanical waves travel through a medium such as a string, water, or air. Perhaps the most significant prediction of Maxwell's equations is the existence of combined electric and magnetic (or electromagnetic) fields

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that propagate through space as  
electromagnetic waves.

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