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By David K Cheng

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Fundamentals of Engineering Electromagnetics. This is a derivative publication of Dr Cheng's Field and Wave Electromagnetics (2nd edition). It has been developed in response to the need for a text that supports the mastery of this difficult subject.

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Electromagnetics is too important in too many fields for knowledge to be gathered on the fly. A deep understanding gained through structured presentation of concepts and practical problem solving is the best way to approach this important subject. Fundamentals of Engineering Electromagnetics provides such an understanding, distilling the most important theoretical aspects and applying this ...

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## **Fundamentals of Electromagnetics**

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## for Engineering

Description. Fundamental of Engineering Electromagnetics not only presents the fundamentals of electromagnetism in a concise and logical manner, but also includes a variety of interesting and important applications. While adapted from his popular and more extensive work, Field and Wave Electromagnetics, this text incorporates a number of innovative pedagogical features.

## **Cheng, Fundamentals of Engineering Electromagnetics | Pearson**

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Physical Constants. Quantity. Value.

Electron charge Electron mass

Permittivity of free space Permeability of

free space Velocity of light.  $e = (1.602$

$177\ 33 \pm 0.000\ 000\ 46) \times 10^{-19}$  C m =

$(9.109\ 389\ 7 \pm 0.000\ 005\ 4) \times 10^{-31}$

kg  $0 = 8.854\ 187\ 817 \times 10^{-12}$  F/m  $\mu_0$

= 4 ...

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2-8 and  $E = Q / (4\pi\epsilon_0 R^2)$ .  $a = R = 2 \times 10^{-2} \text{ m}$  ( $10 \times 10^{-2} \text{ C}$ )  
 $(-a) - 9 = (z - 9) / (4\pi \times 10^{-9} \text{ F} \cdot 36\pi \text{ m})$  ( $z(\text{m})$ )  
 $2 \cdot 90 - = 2 a z z$ . So then  $20a z - z^2 = 90 a z = 0$ ,  $z^2 = 90$ ,  $z = 2.12 \cdot 20$

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