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The laws of classical electrodynamics were discovered in bits and pieces by Franklin, Coulomb, Ampère, Faraday, and others, but the person who completed the job, and packaged it all in the compact and consistent form it has today, was James Clerk Maxwell. The theory is now about 150 years old. The Unification of Physical Theories

INTRODUCTION TO ELECTRODYNAMICS

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Griffiths: Introduction to Electrodynamics

Although his PhD was in elementary particle theory, his recent research is in electrodynamics and quantum mechanics. He is the author of forty-five papers and three books: Introduction to Electrodynamics (Fourth Edition, Prentice Hall, 2013), Introduction to Elementary Particles (Second Edition, Wiley-VCH, 2008), and Introduction to Quantum ...

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Electrodynamics Introduction to

$8.85 \times 10^{-12} \text{ F/m}$ $4\pi \times 10^{-7} \text{ T}\cdot\text{m/A}$ $3.00 \times 10^8 \text{ m/s}$ — $1.60 \times 10^{-19} \text{ C}$ — $9.11 \times 10^{-31} \text{ kg}$ FUNDAMENTAL CONSTANTS (permittivity of free space) (permeability of free space) (speed of light) (charge of the electron) (mass of the electron) SPHERICAL AND CYLINDRICAL COORDINATES $r \sin \theta \cos \phi$ $r \sin \theta \sin \phi$ $r \cos \theta$ $\tan^{-1}(y/x)$ Cylindrical $s \cos \phi$ $s \sin \phi$ $x^2 + y^2$

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Good Book. But "Classical Electrodynamics" by John David Jackson is my favourite. This book covered some basics very elaborately which Jackson didn't but Jackson clarified some matters better than Griffiths. So, both of the books combined is the best composition for learning and grasping the ideas of classical electrodynamics.

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Step 1 of 8 Suppose A and B are two vectors, the dot product of these two vectors will be written as A·B. The dot product of the two vectors is the product of the magnitude of the two vectors and the cosine of the angle between them. Similarly the cross product of the same two vectors is.

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