

Physics 230 Notes

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Chapter 1

Electric Charge and Electric Field

1.1 Background Information

1.1.1 Electromagnetism

Electromagnetism affects only charged particles, such as electrons and protons. Electrons, protons and neutrons have charges that are integer multiples of the elementary charge, e

Chapter 2

Gauss's Law

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Electric Potential

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Capacitance and Dielectrics

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Current, Resistance, and Electromotive Force

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Direct-Current Circuits

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Magnetic Field and Magnetic Forces

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Sources of Magnetic Field

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Electromagnetic Induction

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Alternating Current

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Electromagnetic Waves