

Index

A

Antimatter

[14.8: Negative Energies and Antiparticles](#)

antiparticle

[14.8: Negative Energies and Antiparticles](#)

atomic spectra

[19.5: Atomic Spectra](#)

B

binding energy

[13.7: Use of Conservation Laws](#)

bosons

[19.1: Fermions and Bosons](#)

E

Electric generators

[15.6: Electric Generators and Faraday's Law](#)

Electric motor

[15.5: Torque on a Magnetic Dipole and Electric Motors](#)

Electromagnetic Radiation

[16.6: Electromagnetic Radiation](#)

Electroweak theory

[20.3: The Electroweak Theory](#)

Escape velocity

[13.7: Use of Conservation Laws](#)

F

Faraday's Law

[15.6: Electric Generators and Faraday's Law](#)

fermions

[19.1: Fermions and Bosons](#)

G

gauge theory

[14.5: Gauge Theories and Other Theories](#)

[14.7: Virtual Particles](#)

Gauss' Law

[16.2: Gauss's Law for Electricity](#)

[16.3: Gauss's Law for Magnetism](#)

geodesic curve

[13.5: Effects of Relativity](#)

H

hadrons

[20.1: Hadrons and Leptons](#)

heat conduction

[23.6: Entropy and Heat Conduction](#)

Higgs field

[14.5: Gauge Theories and Other Theories](#)

I

impact parameter

[13.7: Use of Conservation Laws](#)

inductance

[17.2: Magnetic Induction and Inductors](#)

inductor

[17.2: Magnetic Induction and Inductors](#)

K

Kepler's laws

[13.6: Kepler's Laws](#)

Kirchhoff's First Rule

[17.5: Kirchhoff's Laws](#)

L

Lenz's law

[17.2: Magnetic Induction and Inductors](#)

Leptons

[20.1: Hadrons and Leptons](#)

Lorentz condition

[14.4: Lorentz Condition](#)

M

magnetic dipole moment

[15.5: Torque on a Magnetic Dipole and Electric Motors](#)

magnetic monopole

[16.3: Gauss's Law for Magnetism](#)

N

negative energies

[14.8: Negative Energies and Antiparticles](#)

P

permeability of free space

[16.5: Moving Charge and Magnetic Fields](#)

permittivity of free space

[16.1: Coulomb's Law and the Electric Field](#)

Q

Quantum chromodynamics

[20.2: Quantum Chromodynamics](#)

R

Radioactivity

[21.3: Radioactivity](#)

S

second law of thermodynamics

[23.2: Second Law of Thermodynamics](#)

specific heat

[23.5: Specific Heat](#)

Strong nuclear force

[20.2: Quantum Chromodynamics](#)

T

thermodynamic temperature

[23.4: Thermodynamic Temperature](#)

V

virtual particle

[14.7: Virtual Particles](#)