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Electromagnetism
Physical Science,
Grade 11

Electromagnetism
describes between
charges, currents
and the electric

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and magnetic fields which they give rise to. An electric current creates a magnetic field and a changing magnetic field will create a flow of charge.

This relationship between electricity and magnetism has resulted in the invention of many

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devices which are
useful to humans.

Chapter Outline:

Magnetic field
associated with a
current Current
induced by a
changing magnetic
field Transformers
Motion of a
charged particle in
a magnetic field

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issues • includes
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highlights
examples, laws and
formulae in boxes
for easy reference.
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Properties of

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Matter

Physical Sciences
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*support teachers
in managing and
completing the
formal*

*assessment tasks
required by the
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*Department of
Education.*

Electronic

*Properties of
Matter Physical
Science, Grade*

11 We can study

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many different features of solids. Just a few of the things we could study are how hard or soft they are, what their magnetic properties are or how well they conduct heat. The thing that we are

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*interested in,
in this book,
are their
electronic
properties.*

*Simply, how well
do they conduct
electricity and
how do they do
it. Chapter*

Outline:

*Conductors,
insulators and
semi-conductors*

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*Intrinsic
properties and
doping The p-n
junction The
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Electric

Circuits

Physical

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Science, Grade
11 Ohm's Law
tells us that if
a conductor is
at a constant
temperature, the
current flowing
through the
conductor is
proportional to
the voltage
across it. In a
light bulb, the
resistance of

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the filament wire will increase dramatically as it warms from room temperature to operating temperature. If we increase the supply voltage in a real lamp circuit, the resulting increase in

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current causes the filament to increase in temperature, which increases its resistance. This effectively limits the increase in current. In this case, voltage and current do not obey Ohm's Law. Chapter

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Outline: Ohm's
Law Resistance
Parallel and
series networks
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The title of
this research
study is:
Attitudes of
grade 11 female

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students towards physical science in selected high schools in the Mafikeng district.

Attitudinal measures, such as levels of student s interest and the perceived utility of science, were

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examined. The study showed that the attitudes of grade 11 female students in the selected high schools were affected by parents, teachers, peers, classroom environment, personal

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perception and
aspiration.

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followed by
exercises, to show
learners how to go
about answering

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in Physical
Sciences.

Force, Momentum
and Impulse

Physical Science,

Grade 11 An ice

skater pushes

herself away from

the side of the ice

rink and skates

across the ice.

She will continue

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to move in a straight line across the ice unless something stops her. Objects are also like that. If we kick a soccer ball across a soccer field, according to Newton's First Law, the soccer ball should keep

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on moving forever!

However, in real life this does not happen. Is

Newton's Law

wrong? Not really.

Newton's First Law applies to

situations where

there aren't any

external forces

present. This

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means that friction is not present. In the case of the ice skater, the friction between the skates and the ice is very little and she will continue moving for quite a distance. In the case of the soccer ball, air resistance

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(friction between the air and the ball) and friction between the grass and the ball is present and this will slow the ball down. Chapter Outline: Newton's first law Newton's second law Lifts and rockets

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Newton's third law

Different types of

forces Forces in

equilibrium Forces

between masses

Momentum

Change in

momentum

Impulse

Conservation of

momentum

Physics in action

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Science for Grade
11 Theory,

Exercises &

Practical

Investigations

(CAPS)

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Learner's Book

The Atmosphere

Physical Science, Grade

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11 The atmosphere is the layer of gases that surrounds the earth. We may not always be aware of them, but without these gases, life on earth would definitely not be possible. The atmosphere provides the gases that animals and plants need for respiration (breathing) and photosynthesis (the

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production of food), it helps to keep temperatures on earth constant and also protects us from the sun's harmful radiation. In this book, we are going to take a closer look at the chemistry of the earth's atmosphere and at some of the human activities that threaten the delicate balance that exists in

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this part of our planet.

Chapter Outline:

Composition and
structure Greenhouse
gases and global
warming The Open
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Electrostatics Physical
Science, Grade 11 The
electrostatic force was
first studied in detail by

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Charles Coulomb
around 1784. Through
his observations he was
able to show that the
electrostatic force
between two point-like
charges is inversely
proportional to the
square of the distance
between the objects. He
also discovered that the
force is proportional to
the product of the
charges on the two

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objects. Chapter

Outline: Coulomb's law

Electric fields around

charges Electrical

potential energy

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fresh and
innovative look at
the world around
us and links
science to our
everyday lives. All

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case studies and information on specialised fields, companies and institutions were personally researched by the author and verified by experts in those fields, companies and institutions.

Atomic Nuclei
Physical Science,
Grade 11 Nuclear

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physics is the branch of physics which deals with the nucleus of the atom. Within this field, some scientists focus their attention on looking at the particles inside the nucleus and understanding how they interact, while others classify and

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interpret the properties of nuclei. This detailed knowledge of the nucleus makes it possible for technological advances to be made. In this book, we touch on each of these different areas within the field of nuclear physics. Chapter

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Outline:

Radioactivity and
types of radiation
Sources of
radiation Half-life
Dangers and uses
of radiation Nuclear
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The Lithosphere

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*Physical Science,
Grade 11 If we were
to cut the Earth in
half, we would see
that our planet is
made up of a number
of layers, namely the
core at the centre
(seperated into the
inner and outer core),
the mantle, the upper
mantle, the outer
crust and the
atmosphere. The core*

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is made up mostly of iron. The mantle, which lies between the core and the crust, consists of molten rock, called magma which moves continuously because of convection currents. The crust is the thin, hard outer layer that 'floats' on the magma of the mantle. It is the upper

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part of the mantle and the crust that make up the lithosphere ('lith' means 'types of stone' and 'sphere' refers to the round shape of the earth). Together, the lithosphere, hydrosphere and atmosphere make up the world as we know it. Chapter Outline: Mining and mineral processing Energy

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