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Law of

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convex lens | By

Vinod Avnish

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EXPERIMENTAL

VERIFICATION OF
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REFLECTION |

GRADE 8-10 |

PHYSICS *How to
Write a Lab
Report*

Refraction

Through glass
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EASY | Physics

Equations of

Motion (Physics)

Refraction

Through Prism

\u0026 Finding

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Experiment How

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~~Practical Exam~~

~~Video 1.2 How~~

~~To Write A Lab~~

~~Report~~

~~Introduction 1.1~~

How to write a

lab report **How**

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To Write A

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~~Notebook of
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9th and 10th~~

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Length of a
Convex lens~~

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C1

Equations are

supported by

physical

interpretations,

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Practical
Manual C XII

and end-of-
chapter problems
are based on
datasets from a
range of
particle physics
experiments
including dark
matter,
neutrino, and
collider ...

Elementary

Page 14/67

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Follow the P-97
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result. Inspect

each pipet after

pulling for

proper geometry

and dip the

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Patch

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single-vesicle
fusion and
release

The modern
human's worst
nightmare: a
power outage.

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Left without cat
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and – of course
– Hackaday,
there's little
to do except
participate in
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anarchy that ...

This Quick Hack
Will Keep You
Online During

Page 17/67

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Your Next Power
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American Journal
of Respiratory
and Critical
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Last week, the US Department of Transportation and FAA released their rules governing drones, model aircraft, unmanned aerial systems, and quadcopters - a rose by any other name will be ...

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Here's The

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"• It is
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guidelines

• It contains
all NCERT Lab
Manual

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Questions, fully
solved

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- It contains more than sufficient viva voce questions for practice
- It also includes brief description of each activity/experiment, which

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Practical

will help

students in
Manual C1 Xii
practicing and
completing their
lab work. "

Laboratory
experiences as a
part of most
U.S. high school
science
curricula have
been taken for
granted for

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Practical Manual C1 XII

decades, but they have rarely been carefully examined. What do they contribute to science learning? What can they contribute to science learning? What is the current status of labs

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in our
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a context for

learning

science? This

book looks at a

range of

questions about

how laboratory

experiences fit

into U.S. high

schools: What is

effective

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Practical
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student learning

in laboratory

experiences be

assessed? Do all

student have

access to

laboratory

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What changes
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to improve
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experiences for
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laboratory
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and should be.

Science

educators,

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Practical

school administrators, policy makers, and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how

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that can be
accomplished.
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In accordance to
the new syllabus
of Central Board
of Secondary
Education (CBSE),
New Delhi and
other State
Boards following
CBSE Curriculum.

SECTION : A

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EXPERIMENTS 1. To

determine
resistance per
cm of a given
wire by plotting
a graph for

potential
difference

versus current,

2. To find

resistance of a
given wire using
meter bridge and
hence determine

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the specific
resistance
(Resistivity) of
its material,
3.To verify the
laws of
combination (Ser
ies/Parallel) of
resistance using
ameter bridge,
4.To compare the
e.m.f. of two
given primary
cells using

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potentiometer,

5. To determine
the internal

resistance of a
given primary
cell (e.g.

Leclanche cell)
using

potentiometer,

6. To determine
the resistance
of a

galvanometer by
half deflection

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method and to
find its figure
of merit. 7 A.

To convert a
given
galvanometer (of
known resistance
and figure of
merit) into an
ammeter of
desired range
and to verify
the same, 7.B.To
convert a given

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galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same. 8.To find the frequency of AC mains with a sonometer and horse-shoe magnet. SECTION

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B EXPERIMENTS

1. To find the value of v for different values of u in case of a concave mirror and to find the focal length,
2. To find the focal length of a convex lens by plotting graph between u and v or $1/u$ and $1/v$.

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3. To find the focal length of a convex mirror, using a convex lens. 4. To find the focal length of a concave lens, using a convex lens. 5. To determine the angle of minimum deviation for a given prism by plotting a graph

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Manual C1 Xii

between the
angle of
incidence and
angle of
deviation, 6. To
determine
refractive index
of a glass slab
using a
travelling
microscope, 7. To
find the
refractive index
of a liquid by

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Practical Manual C1 XII
using a convex lens and a plane mirror, 8. To

draw I-V

characteristics

curve of a p-n

function in

forward bias and

reverse bias,

9. To draw the

characteristics

curve of a zener

diode and to

determine its

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reverse break
down voltage,

10.To study the

characteristics

of a common-

emitter n-p-n or

p-n-p transistor

and to find out

the values of

current and

voltage gains.

SECTION : A

ACTIVITIES 1.To

measure the

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Practical and impedance of an inductor with or without iron core, 2. To measure resistance voltage (AC/DC), current (AC) and check continuity of given circuit using multimeter, 3. To assemble a

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household

circuit

comprising of

three bulbs,

three (on/off) sw

itches, a fuse

and a power

source. 4.To

assemble the

components of a

given electrical

circuit. 5.To

study the

variation in

File Type PDF

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potential drop
with length of a
wire for a
steady current,
6. To draw the
diagram of a
given open
circuit
comprising
at least a
battery, resistor/
rheostat, key
ammeter and
voltmeter. Make

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the components that are not connected in proper order and correct the circuit and also the circuit diagram. SECTION : B ACTIVITIES
1. To study effect of intensity of light (by varying distance

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of the source)

on an LDR (Light
Depending

Resistor), 2.To

identify a

diode, a LED, a

transistor, an

IC, a resistor

and a capacitor

from mixed

collection of

such items, 3.

Use a multimeter

to : (i)

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Identify the transistor, (ii) distinguish between n-p-n and p-n-p type transistor, (iii) see the unidirectional flow of current in case of a diode and a LED, (iv) Check whether a given electronic

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components (e.g

diode,

transistor or

IC) is in

working order,

4.To observe

refraction and

lateral

deviation of a

beam of light

incident

obliquely on a

glass slab, 5.To

observe

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Practicalisation of
light using two
polaroids, 6. To
observe

diffraction of
light due to a
thin slit, 7. To
study the nature
and size of the
image formed by

: (i) convex
lens, (ii)
concave mirror
on a screen by

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Practical candle and
a screen for
Manual C1 Xii
different

distance of the
candle from the
lens/mirror,

8. To obtain a
lens combination
with the
specified focal
length by using
two lenses from
the given set of
lenses.

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SUGGESTED

INVESTIGATORY
PROJECT 1.To

Study Various
factors on which
the Internal
Resistance/EMF
of a cell
depends, 2.To
study the
variations in
current
following in a
circuit

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containing

L.D.R. because
of variation.

(a) In the power
of incandescent
lamp used to
illuminate the
L.D.R. Keeping
all the lamps in
fixed position

(b) In the
Distance of a
incandescent lamp
(of fixed power)

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used to illum
inate the L.D.R.

3. To find the refractive indices of (a) Water (b) Oil (Transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an

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adjustable

object needle,

4. To design an

appropriate

logic gate

combination for

a given truth

table. 5. To

investigate the

relation between

the ratio of :

(i) Output and

Input voltage

(ii) Number of

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Practical in

secondary coils
and primary

coils of a self
designed

transformer.

6.To Investigate

the dependence

of angle of

deviation on the

angle of

incidence, using

a hollow prism

filled one by

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with different
transparent
fluids, 7.To

Estimate the
charge induced
on each one of
the two
identical
styrofoam balls
suspended in a
vertical plane
by making use of
coulomb's Law
:, 8.To study

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Practical factors on which the self inductance of a coil depends by observing the effect of this coil, when put in series with a resistor (bulb) in a circuit fed up by an a.c. source of adjustable frequency, 9. To

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Practical
study the

Manual C
earth's magnetic
field using a
tangent

galvanometer.

APPENDIX Some
Important Tables
of Physical
Constants

Logarithmic and
other Tables

"• It is
strictly

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According to the
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- It also includes brief description of each activity/experiment, which will help students in practicing and completing their lab work. "

Goyal Brothers

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Prakashan

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The College
Physics for
AP (R) Courses
text is designed
to engage
students in
their
exploration of
physics and help

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them apply these
concepts to the
Advanced

Placement (R)

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approved for
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courses. The
text and images
in this book are
grayscale.

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