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deals with basic physics in which we have discussed Units & Measurement , Heat , Light & Modern physics .The volume (II) widely covers with Applied Physics in which we have discussed Kinematics and some chapter of General Physics like Angular

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motion & Simple

Harmonic motion and kinetics . This volume also covers the study of Non – destructive testing of materials as well as Acoustics of building . Chapter 1.2 (i) explains about rest & motion in one dimension in a given frame of reference of the observer in brief .

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On the basis of the above definition the observer frame of reference has been divided into two categories in chapter 1.2(ii) as Inertial & Non – inertial frame of reference in which it has been briefly explained using Newton law of motion as inertial frame of

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reference on the other hand a frame of reference in which Newton law of motion cannot be defined is called Non-Inertial frame of reference with an example as Earth is an Inertial frame of reference but since it is revolving around the sun it may not be strictly speaking

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to be an Inertial frame of reference . In chapter 1.2(iii) the of Definition of Distance, Displacement, Speed , Velocity and Acceleration has been illustrated with suitable diagram .After a brief introduction about the above physical quantities used to

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define the motion of a body Rectilinear Motion has been described with following equation as $v = u + at$, $S = ut + \frac{1}{2} a t^2$ & $v^2 = u^2 + 2as$ in chapter 1.2(iv) . Chapter 1.2(v) aims to study a body which is travelling a distance travelled in nth second .On the basis of which

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it became simpler to describe the uniform motion of a body in different interval of time . The above equation of motion may be illustrated using Time – position graph in chapter 1.2(vi) and Velocity-Time Diagrams for uniform velocity in chapter

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1.2(vii).Further in chapter 1.2(viii) the motion of a Uniform acceleration and uniform retardation and equations of motion for motion under gravity has been described extensively . In the next chapter 1.3: (i) Angular Motion is being defined with following

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parameter as angular displacement , angular velocity and acceleration . chapter 1.3(ii) gives Relation between angular velocity and linear velocity . Chapter 1.3(iii) has extensively discussed the three equation of motion for a body on circular path .As the above

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mentioned equation for distance travelled by a particle in n th second the Angular distance travelled by particle in n th second has been mentioned in chapter 1.3(iv) . In chapter 1.3(v) the definition of S.H.M. has been described as projection of uniform circular motion on

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any one diameter and
Graphical
Representation of
displacement velocity,
acceleration of particle
in SHM for S.H.M.
starting from mean
position and from
extreme position in
chapter 1.3(vi). The
next unit chapter
2.2:(i) begins with
study of Concept of

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Force in which different types of forces in nature may have been classified . Chapter 2.2(ii) discusses two types of forces as Contact & Non-contact forces . Further study has been given with 2.2(iii) study the definition of momentum & 2.2(iv) Laws of conservation

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of linear momentum .

An extensive study of effect of force on basis of time of influence has been discussed as impulse & impulsive force in chapter 2.2(v)

.Chapter 2.2(vi) is a brief study of Newton ' s laws of motion with equations & applications.

Chapter 2.2(vii) is the

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study of Motion of lift
. In the next unit
chapter 2.3(i) has been
covered with the
definition of work,
Power & Energy .
Chapter 2.3 (ii) is
Equation for P.E. &
chapter 2.3(iii) is study
of Work-Energy
Principle with chapter
2.3(iv) is
Representation of

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work by using graph &
2.3 (v) is graphical
study of Work Done
by torque

Chapter 3.2(i) explains
the definition of
material science as
branch of applied
science relation with
solid state physics or
solid state chemistry in
which one can study
about structure of

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material and their properties as a interdisciplinary study about materials for applicable purposes . Further chapter 3.2 (ii) illustrate classification of materials in two categories in which material has been classified (a) Metals (e.g. Iron , Gold , Aluminum , Silver

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Copper etc) & (b) Non-Metals (e.g. Leather ,Rubber , plastics ,asbestos ,carbon etc.) . A detail study has been focussed on Testing methods of materials in chapter 3.2 (III) for which the requirement of testing of materials is subjected for quality maintenance of the

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material in engineering for application purposes . A wide range of method has been described in detail for most cheap and suitable application of maintained quality of the material in industries .Despite its advantages the limitations of N.D.T

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method has that has been covered in chapter 3.2(IV). The different names of N.D.T. Methods used in industries has been discussed in chapter 3.2(V) as X-ray radiography , Gamma-ray radiography , Magnetic particle inspection , Ultrasonic testing , Damping

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method & Electrical
Method . Factors on
Which selection of
N.D.T .depends has
been discussed in
chapter 3.2(vi) as Load
, Temperature ,
Composition , Grain-
size, Thickness of the
material & Service
condition . For
application point of
view Study of

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principle, Set up & Procedure has been extensively covered in for X-ray radiography, Gamma-ray radiography, Magnetic particle inspection, Ultrasonic testing , Damping method & Electrical Method . Chapter 3.2(vii) Working , advantages , limitations

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, Applications and
Application code of
N.D.T. methods as
Penetrant method,
Magnetic particle
method ,Radiography,
Ultrasonic ,
Thermography has
been covered in this
chapter .. . Chapter
4.2(i) is the of study
Acoustics the branch
of physics in which we

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study about sound .

The next chapter
4.2(ii) studies about
Characteristics of
audiable sound and
chapter 4.2(iii)

Intensity & Loudness
of sound ,Weber and
Fechner ' s Law .

Further chapter 4.2(iv)
discusses the Limit of
intensity and loudness
and chapter. Chapter

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4.2(v) is the study of Echoes & chapter 4.2(vi) is the study of Reverberation & Reverberation time (Sabine ' s formula) Timbre(quality of sound) of sound have been studied in chapter 4.2(vii) How Pitch or frequency of sound is related to audible sound wave

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and music system is the study part of 4.2(viii) . The Factors affecting Acoustical planning of auditorium reverberation has been briefly outlined in chapter 4.2(ix). In an auditorium design the Creep Focusing is an important study of for checking the long

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term deformation in building has been given in chapter 4.2(x) . The characteristics of sound wave as standing wave has been studied in chapter 4.2(xi). The coefficient of sound wave absorption has been studied in chapter 4.2(xii) .The Sound insulation &

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Noise pollution and the different ways of controlling these factor has been given in 4.2(xiv) & 4.2(xv). The chapter 4.3 (ii) is the study of Definition of luminous intensity, intensity of illumination with their SI units . Chapter 4.3(iii) is the study Inverse square law

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and Photometric equation . In photometry chapter 4.3(iv) Bunsen ' s photometer-ray diagram has been introduced & Chapter 4.3(vi) is the study of Need of indoor Lighting . Chapter 4.3(vii) is the study of Indoor lighting schemes .and

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factors affecting

Indoor Lighting .

The General Science
section covering

Physics, Chemistry,
Biology and

Computer Science has
taken an important
dimension in most of
the competitive

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knowledge lag behind
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The present book will
act as an Objective
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General Science. The
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prepared keeping in

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mind the importance of the subject. This book has been divided into four sections namely Physics, Chemistry, Biology and Computer Science, each divided into number of chapters as per the syllabi of General Science section asked in various competitive

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Communication, etc
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Electrochemistry,
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Their Compounds,
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Chemistry, etc. The
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book covers Biology &
Its Branches, Cell:
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in Organisms,
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Representation,
Software, Data

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