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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 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

. 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

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 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 define the motion of a body Rectilinear Motion has been described with following equation as v = u + at , S = ut + ½ a t2 & v2= u2 + 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 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 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 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 mentioned equation for distance travelled by a particle in nth second the Angular distance travelled by particle in nth 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 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 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 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 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 work by using graph & 2.3 (v) is graphical study of Work Done by torque Chapter3.2(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 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 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 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 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 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 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 , 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 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 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 audiable sound wave 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 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 & 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 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 . Chapter4.3(vii) is the study of Indoor lighting schemes .and factors affecting Indoor Lighting .

This book aims at providing a

complete coverage of the needs of First Year students as per S.B.T.E's. revised syllabus. The entire revised syllabus has been covered keeping in view the non-availability of the complete subject matter through a single source. The difficult articles have

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