

PROJECTILE MOTION

1. PROJECTILE THROWN AT AN ANGLE WITH HORIZONTAL



- Consider a projectile thrown with a velocity u making an angle θ with the horizontal.
- Initial velocity u is resolved in components in a coordinate system in which horizontal direction is taken as x -axis, vertical direction as y -axis and point of projection as origin.
 $u_x = u \cos \theta$ $u_y = u \sin \theta$
- Again this projectile motion can be considered as the combination of horizontal and vertical motion. Therefore,

Horizontal direction	Vertical direction
(a) Initial velocity $u_x = u \cos \theta$	Initial velocity $u_y = u \sin \theta$
(b) Acceleration $a_x = 0$	Acceleration $a_y = g$
(c) Velocity after time t , $v_x = u \cos \theta$	Velocity after time t , $v_y = u \sin \theta - gt$

1.1 Time of flight :

The displacement along vertical direction is zero for the complete flight.
Hence, along vertical direction net displacement = 0

$$\Rightarrow (u \sin \theta) T - \frac{1}{2} gT^2 = 0 \qquad \Rightarrow \qquad T = \frac{2u \sin \theta}{g}$$

1.2 Horizontal range :

$$R = u_x \cdot T \qquad \Rightarrow \qquad R = u \cos \theta \cdot \frac{2u \sin \theta}{g}$$

$$R = \frac{u^2 \sin 2\theta}{g}$$

1.3 Maximum height :

At the highest point of its trajectory, particle moves horizontally, and hence vertical component of velocity is zero.

Using 3rd equation of motion i.e.

$$v^2 = u^2 + 2as$$

we have for vertical direction

$$0 = u^2 \sin^2 \theta - 2gH \qquad \Rightarrow \qquad H = \frac{u^2 \sin^2 \theta}{2g}$$

Iit Jee Projectile Motion Problems

K. K. Mohindroo



Iit Jee Projectile Motion Problems:

Problems in Physics for JEE (Main & Advanced) Volume - 1 Career Point Kota, 2020-07-05 Problems in Physics for JEE Main Advanced Physics Olympiads Advanced Physics by Career Point Volume 1 is a collection of conceptual questions along with detailed solutions These questions are thought provoking and cover the application of various concepts in solving problems Questions in this book are handpicked by experienced faculty members of Career Point to enhance the following skills of the students 1 Understanding of concepts and their application to the grass root level 2 Improving their scoring ability accuracy by providing an opportunity to practice a variety of questions The book approaches the subject in a very conceptual and coherent manner Chapter wise varieties of questions are arranged in a sequential manner to build a strong foundation of fundamentals The coverage and features of books make it highly useful for all those preparing for JEE Advanced Physics Olympiads KVPY and other advanced level Physics exams This volume consists of chapter wise challenging questions with detailed explanatory solutions from the following chapters for JEE 1 Unit Dimension and Errors 2 Motion in one Dimension 3 Projectile motion and Relative motion 4 Laws of motion 5 Friction 6 Circular Motion 7 Work Power and Energy 8 Laws of conservation of momentum 9 Rotational motion 10 Gravitation 11 Simple Harmonic Motion 12 Properties of matter 13 Surface Tension Viscosity and Elasticity 14 Fluid Mechanics 15 Calorimetry 16 Kinetic Theory of Gases 17 Thermodynamics 18 Heat Transfer 19 Thermal Expansion 20 Transverse Wave 21 Sound Wave 22 Doppler's Effect Highlights Improves student's critical thinking application of concepts in varied situations As per the requirement of JEE Advanced Improves self learning hence enhances confidence and scoring ability Also useful for Olympiad and other high level competitive exams Prepared by Career Point Kota classroom Faculty Team *Plancess Rank Accelerator Physics for IIT-JEE (Jee Main & Advanced)* Career Point Kota, 2021-10-07 Rank Accelerator for Physics Created by Top 100 IIT JEE Rankers Comprises of JEE Main and JEE Advanced important questions Designed by Top 100 JEE Rankers and Senior Faculty of Premier Institutes 4000 Unsolved Questions Topic wise exercises consisting questions of varied difficulty Helps develop problem solving ability 2000 Problems of last 35 years Topic wise segregation of questions Year wise tagging of each question Proper categorization of questions into JEE Main and JEE Advanced Seamless categorization of questions into JEE Main and JEE Advanced Categorization of questions based on their relevancy and difficulty level Level of Exercises Categorized into JEE Main Advanced Division of questions into four exercises of increasing difficulty PlancEssential Questions Important questions picked by Top 100 IIT JEE Rankers the Best resource for quick and easy revision Types of Questions Based on Latest IIT JEE Pattern Exercises based on latest IIT JEE Pattern Questions with Single Option Correct Multiple Options Correct Exercise Questions comprises of Comprehension Based Questions Assertion and Reasoning Matrix Match Comprehension Based Matrix Match and Single Integer Type *CIRCULAR MOTION* Dr. Sanjay Kumar, 2020-10-13 This text book is primarily intended for students who are preparing for the entrance tests of IIT JEE NEET AIIMS and other

esteemed colleges in same fields This text is equally useful to the students preparing for their school exams Our main goals in writing this text book are to present the basic concepts and principles of physics that students need to know for their competitive exams

- 1 to provide a balance of quantitative reasoning and conceptual understanding with special attention to concepts that have been causing difficulties to student in understanding the concepts
- 2 to develop students problem solving skills and confidence in a systematic manner
- 3 to motivate students by integrating real world examples that build upon their everyday experiences

Main Features of the Book

- 1 Every concept is up to the mark and it is given in student friendly language with various solved problems The solution is provided with problem solving approach and discussion
- 2 Checkpoint questions have been added to applicable sections of the text to allow students to pause and test their understanding of the concept explored within the current section The answers and solutions to the Checkpoints are given in answer keys at the end of the chapter so that students can confirm their knowledge without jumping too quickly to the provided answer
- 3 Special attention is given to all tricky topics like centripetal and tangential acceleration uniform circular motion vs projectile motion relative angular velocity centripetal and centrifugal force unbanked and banked curves motion in a vertical circle Coriolis force optional effect of rotation of earth on apparent weight and the physics of artificial gravity so that student can easily solve them with fun
- 4 To test the understanding level of students multiple choice questions conceptual questions practice problems with previous years JEE Main and Advanced problems are provided at the end of the whole discussion

Number of dots indicates level of problem difficulty Straightforward problems basic level are indicated by single dot intermediate problems JEE mains and NEET level are indicated by double dots whereas challenging problems advanced level are indicated by three dots Answer keys with hints and solutions are provided at the end of the chapter

Elements of Physics XI, S. Chand's Objective Physics For IIT-JEE, AIEEE, AIIMS, AIPMT Jain Mahesh,2010 This book is written for the students preparing for the Medical and Engineering Entrance Examinations of all Indian Universities and Institutes It is also useful for Civil Services Prelim J R F other Examinations

Problems In Physics Mechanics JEE Main and Advanced Pradeep Beniwal,2021-04-17

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- 3 Each chapter is divided into 3 levels of preparation
- 4 At the end of the each chapter cumulative exercises for JEE Main where Level 1 Starter Level Level 2 JEE Main Level and Level 3 JEE Advanced Level making a solid preparation Detailed and explanatory solutions provided to all the questions for the better understanding

TOC Vectors Calculus in Physics Units Dimensions Significant Figures Errors in Management Rectilinear Motion Projectile Motion Relative Motion Kinematics Calculus Kinematics Graphs Newton s Laws of Motion Friction Work Energy Power Circular Motion

Basic Principles of Physics K. K. Mohindroo,1997

Vol 02: Mechanics-I : Adaptive Problems Book in Physics for College & High School SATYAM SIR,2021-11-26 This book will cover the following

Chapter s Motion in a Straight Line Motion in a Plane Laws of Motion This book contains Basic Math for Physics Vectors Units and Measurements It is divided into several subtopics where

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Main Features of the Book 1 Every concept is up to the mark and it is given in student friendly language with various solved problems The solution is provided with problem solving approach and discussion 2 Checkpoint questions have been added to applicable sections of the text to allow students to pause and test their understanding of the concept explored within the current section The answers and solutions to the Checkpoints are given in answer keys at the end of the chapter so that students can confirm their knowledge without jumping too quickly to the provided answer 3 Special attention is given to all tricky topics like centripetal and tangential acceleration uniform circular motion vs projectile motion relative angular velocity centripetal and centrifugal force unbanked and banked curves motion in a vertical circle Coriolis force optional effect of rotation of earth on apparent weight and the physics of artificial gravity so that student can easily solve them with fun 4 To test the understanding level of students multiple choice questions conceptual questions practice problems with previous years JEE Main and Advanced problems are provided at the end of the whole discussion Number of dots indicates level of problem difficulty Straightforward problems basic level are indicated by single dot intermediate problems JEE mains and NEET level are indicated by double dots whereas challenging problems advanced level are indicated by three dots Answer keys with hints and solutions are provided at the end of the chapter

Kinematics Sanjay Kumar, 2020-06-30 This physics book is the product of more than fifteen years of teaching and innovation experience in physics for JEE main Advanced NEET aspirants Our main goals in writing this book are to present the basic concepts and principles of physics that students need to know for JEE MAIN ADVANCED NEET and other related competitive exams to provide a balance of quantitative reasoning

and conceptual understanding with special attention to concepts that have been causing difficulties to student in understanding the concepts to develop students problem solving skills and confidence in a systematic manner to motivate students by integrating real world examples that build upon their everyday experiences What s New Lots Much is new and unseen before Here are the big four

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- 4 To test the understanding level of students multiple choice questions conceptual questions practice problems with previous years JEE Main and Advanced problems are provided at the end of the whole discussion Number of dots indicates level of problem difficulty Straightforward problems basic level are indicated by single dot intermediate problems JEE mains and NEET level are indicated by double dots whereas challenging problems advanced level are indicated by three dots Answer keys with hints and solutions are provided at the end of the chapter We have kept these goals in mind while developing the main theme of our physics book

100 Solved Problems on Motion in a Plane Shraddhesh Chaturvedi, Jitender Singh, 2019-01-06 The problems present in this book bring forth the subtle points of theory consequently developing full understanding of the topic They are invaluable resource for any serious student of Physics Features Focus on building concepts through problem solving MCQ s with single correct and multiple correct options Questions arranged according to complexity level Completely solved objective problems The solutions reveals all the critical points Promotes self learning Can be used as a readily available mentor for solutions This book provides 100 objective type questions and their solutions These questions improves your problem solving skills test your conceptual understanding and help you in exam preparation The book also covers relevant concepts in brief These are enough to solve problems given in this book If a student seriously attempts all the problems in this book he she will naturally develop the ability to analyze and solve complex problems in a simple and logical manner using a few well understood principles Topics Vectors General Motion in Two Dimensions Projectile Motion Projectile on an Inclined Plane Uniform Circular Motion Curvilinear Motion Authors Jitender Singh is working as a Scientist in DRDO He has a strong academic background with Integrated M Sc 5 years in Physics from IIT Kanpur and M Tech in Computational Science from IISc Bangalore He is All India Rank 1 holder in GATE and loves to solve

physics problems Shraddhesh Chaturvedi holds a degree in Integrated M Sc 5 years in Physics from IIT Kanpur He is passionate about problem solving in physics and enhancing the quality of texts available to Indian students His career spans many industries where he has contributed with his knowledge of physics and mathematics An avid reader and keen thinker his philosophical writings are a joy to read

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Mechanics Part 1 Sanjay Kumar,2020-07-12 This text book is primarily intended for students who are preparing for the entrance tests of IIT JEE NEET AIIMS and other esteemed colleges in same fields This text is equally useful to the students preparing for their school exams Main Features of the Book 1 Every concept is given in student friendly language with various solved problems and checkpoint questions The solution is provided with problem solving approach and discussion 2 Special attention is given to all tricky topics like dimensional problems with integration sign conversion of units measurement of large distances by parallax method combination of errors applications of vectors in physics with problem solving approach constrained relations block over block friction problems graphical problems motion under negative acceleration juggling problems relative velocity projectile motion condition for a projectile to retrace

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Concepts of Mechanics Vol. 2 for JEE Advanced & Main 7th Edition Er. D. C. Gupta, Er. Harsh Gupta, 2019-06-20

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