

# PROJECTILE MOTION

## 1. PROJECTILE THROWN AT AN ANGLE WITH HORIZONTAL



- Consider a projectile thrown with a velocity  $u$  making an angle  $\theta$  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

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

### 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 3<sup>rd</sup> 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

**Dr. Sanjay Kumar**



## **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

**Problems In Physics Mechanics JEE Main and Advanced** Pradeep Beniwal,2021-04-17 1 The book is prepared for the problem solving in Physics 2 It is divided into 13 chapters 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

**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

*Basic Principles of Physics* K. K. Mohindroo,1997 *Vol 05: Motion in 2 D: Adaptive Problems Book in Physics (with Detailed Solutions) for College & High School* SATYAM SIR,2021-08-01 Learn Motion in 2 Dimensions which is divided into various sub topics Each topic has plenty of problems in an adaptive difficulty wise From basic to advanced level with gradual

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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

- 1 Every concept 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 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 graphical problems motion under negative acceleration juggling problems relative velocity projectile motion condition for a projectile to retrace its path radius of curvature at any point on the trajectory of projectile motion projectile motion on inclined plane and stairway relative velocity river boat man problems rain man problems motion of many particles with same speed towards each other in a plane and motion of two particles with different speed towards each other in a plane 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 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

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- Focus on building concepts through problem solving
- MCQ s with single correct and multiple correct options
- Questions arranged according to complexity level
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- The solutions reveals all the critical points
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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 Shradhesh 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 Understanding Physics for JEE Main and Advanced Mechanics Part 1 2020 Arihant Experts,2019-04-23 IIT JEE Main and Advanced test the conceptual knowledge of aspirants by asking real life application based problems on Physics Chemistry and Mathematics Keeping this in mind we have been publishing our best selling series of books exclusively on different topics of all three subjects to enable aspirants for advanced ability to tackle any type of questions asked from them Understanding Physics is one of those best selling series written by renowned author D C Pandey which carries five fully comprehensive textbooks presenting 36 essential chapters of Physics The first book on Mechanics Volume 1 has been revised thoroughly to reinforce the foundation of Mechanics simply and coherently with 10 scoring chapters promoting in depth discussions on each theory The focused study material for concept building along with applications for solidifying the problem solving skills given in this book are highly advantageous It also provides the last 6 years questions of JEE Main and Advanced to know the trend and patterns of questions Enclosed with well organized and premier set of study material to develop the substantial knowledge of Physics required for acing IIT JEE Main and Advanced this book is the absolute best in terms of both quality and quantity **Master Resource Book in Physics for JEE Main 2022** DB Singh,2021-08-26 1 The Master Resource book gives complete coverage of Physics 2 Questions are specially prepared for AIEEE consisting 31 chapters from JEE Mains 4 Each chapter is accessorized with 2 Level Exercises and Exam Questions 5 Includes highly useful JEE Main Solved papers Comprehensively covering all topics of JEE Main Syllabus here s presenting the revised edition of Master Resource Book for JEE Main Physics that is comprised for a systematic mastery of a subject with paramount importance to a problem solving Sequenced as per the syllabus of class 11th 12th this book has been divided into two parts accordingly Each chapter is contains essential theoretical concepts along with sufficient number of solved paper examples and problems for practice To get the insight of the difficulty level of the paper every chapter is provided with previous years question of AIEEE JEE Single Correct Answer Types and Numerical Value Questions cover all types of questions TOC PART I Units and Measurements Vector Analysis Kinematics I Motion in 1 0 Kinematics II Projectile Motion Circular Motion Laws of Motion and Friction Work Energy and Power Centre of Mass Rotational Motion Gravitation Properties of Solids Properties of Fluids Thermometry Calorimetry and Heat Transfer Kinetic Theory of Gases Thermodynamics Oscillations Waves PART II Electrostatics Current Electricity Magnetic Effects of Current Magnetostatics Electromagnetic Induction Alternating Current Electromagnetic Waves Ray Optics and Optical Instruments Wave Optics Dual Nature of Radiation and Matter Electronic Devices Atoms and Nuclei Communication System Experimental Physics *A Problem Book In PHYSICS For IIT JEE* DC Pandey,2018-04-20 Cracking JEE Main Advanced requires good

command over the principles and concepts of physics and their applications to solve a variety of problems asked irrespective of the exam format A massive collection of the most challenging problems the Selected Problems Series comprises of 3 books one each for Physics Chemistry and Mathematics to suit the practice needs of students appearing for upcoming JEE Main and Advanced exam DC Pandey s 500 Selected Problems in Physics aims to hone your Problem Solving Skills on all aspects of the exam syllabi through 16 logically sequenced chapters Working through these chapters you will be able to understand Fundamentals of physics and avoid the pitfalls in applying the Concepts The Step by Step solutions to the problems in the book will make you learn the time saving strategies essential for all those appearing in JEE Main Advanced and all other Engineering Entrance Examinations or even those who are inclined to Problem Solving in Physics Vol 04: Motion in 1 D: Adaptive Problems Book in Physics (with Detailed Solutions) for College & High School SATYAM SIR,2021-08-01 Learn Motion in 1 Dimension which is divided into various sub topics Each topic has plenty of problems in an adaptive difficulty wise From basic to advanced level with gradual increment in the level of difficulty The set of problems on any topic almost covers all varieties of physics problems related to the chapter Motion in 1 Dimension If you are preparing for IIT JEE Mains and Advanced or NEET or CBSE Exams this Physics eBook will really help you to master this chapter completely in all aspects It is a Collection of Adaptive Physics Problems in Motion in 1 D for SAT Physics AP Physics 11 Grade Physics IIT JEE Mains and Advanced NEET Olympiad Level Book Series Volume 04 This Physics eBook will cover following Topics for Motion in 1 Dimension 1 Distance and Displacement 2 Speed and Velocity 3 Acceleration Calculus 4 Equation of Motion 5 Motion under Gravity 6 Graphs in Motion 7 1D Relative Motion 8 Chapter Test The intention is to create this book to present physics as a most systematic approach to develop a good numerical solving skill About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years He has mentored over ten thousand students and continues mentoring in regular classroom coaching The students from his class have made into IIT institutions including ranks in top 100 The main goal of this book is to enhance problem solving ability in students Sir is having hope that you would enjoy this journey of learning physics In case of query visit [www.physicsfactor.com](http://www.physicsfactor.com) or whatsapp to our customer care number 91 7618717227 *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 its path radius of curvature at any point on the trajectory of projectile projectile motion on inclined plane and stairway relative velocity river boat man problems rain man problems motion of many particles with same speed towards each other in a plane motion of two particles with different speed towards each other in a plane constrained relations and block over block friction problems so that student can easily solve them with fun 3 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 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

**Concepts of Mechanics Vol. 2 for JEE Advanced & Main 7th Edition** Er. D. C. Gupta, Er. Harsh Gupta, 2019-06-20 The 2nd book in the new Physics Concepts Series by D C Gupta of books for IIT JEE Advanced Mains Concepts of Mechanics 1 Vol 2 for JEE Advanced Main 7th Edition The series aims at helping the students with Tricks Techniques to Master Concepts and Problem Solving Skills in Physics for IIT JEE The books are empowered with Problem Solving Videos by the author himself where he has tried to demonstrate the best practices while attempting IIT JEE Physics Problems The Most User Friendly Series of Books The book comprises of Comprehensive Theory and Miscellaneous Solved Examples for a better understanding of the concepts The theory not only discusses the concept at length but also discusses the various permutations and combinations in which problems can be asked in JEE Advanced Gyan Booster Concept points are given in various places in each chapter To make the book more pertinent and relevant selected NCERT EXEMPLAR Previous years JEE Advanced Mains KVPY and Physics Olympiad Problems are also included The questions in each exercise are arranged TOPIC WISE Concept Boosting Questions are marked with a Star CBQ and High Order Thinking Skills questions as HOTS 15 25 Problem Solving Videos of TYPICAL PROBLEMS demonstrating the best approach to solve Problems A lot of unique and new Questions similar to the ones being asked in JEE Advanced have been added in the exercises Hints and solutions for all the problems of the exercises are provided The book also contains Chapter wise all important formulae and summarised theory at the end of each chapter for last minute Revisions

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