

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

TD Snyder



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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

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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

- 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

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

it has levelwise easy medium and difficult problems on every subtopic It is a collection of more than 300 Adaptive Physics Problems for IIT JEE Mains and JEE Advanced NEET CBSE Boards NCERT Book AP Physics SAT Physics Olympiad Level questions Key Features of this book Sub topic wise Questions with detailed Solutions Each Topic has Level 1 Level 2 Questions Chapter wise Test with Level 1 Level 2 Difficulty NCERT BOARD Level Questions for Practice Previous Year Questions JEE Mains Previous Year Questions JEE Advanced Previous Year Questions NEET CBSE More than 300 Questions from Each Chapter 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 or whatsapp to our customer care number 91 7618717227

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 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 2 Dimensions 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 2 D for SAT Physics AP Physics 11 Grade Physics IIT JEE Mains and Advanced NEET Olympiad Level Book Series Volume 05 This Physics eBook will cover following Topics for Motion in 2 Dimensions 1 Projectile Motion 2 Equation of Trajectory 3 Projectile Motion on an Inclined Plane 4 2D Relative Motion 5 Rain Man Problems 6 River Boat Problems 7 Circular 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 or whatsapp to our customer care number 91 7618717227

Understanding Physics for JEE Main and Advanced Mechanics Part 1 Dc Pandey,2022-02-16 With ever changing pattern and syllabus JEE Main and Advanced tests the conceptual knowledge of the aspirants by asking problems on the real life applications on all 3 subjects Physics Chemistry and Mathematics Keeping this mind we have upgraded our bestselling series since its first edition Understanding Physics JEE Main and Advanced written by renowned author D C Pandey which carries five fully comprehensive textbooks presenting 36 essential chapters of Physics The first book of the series is Mechanics

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Circular Motion Sanjay Kumar, 2020-10-14 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 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

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

- 1 Every concept is given in student friendly language with various solved problems The solution is provided with problem solving approach and discussion
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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 *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 **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 or whatsapp to our customer care number 91 7618717227 **A Problem Book In PHYSICS For IIT JEE** DC Pandey,2018-04-20

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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

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 750+ Blockbuster Problems in Physics for JEE Main Disha Experts, 2021-02-04

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