

## ***Iit Jee Projectile Motion Problems***

**"Bring conceptual clarity and develop the skills to approach any unseen problem, step by step." - HC Verma "Great Book to read and understand! Quality explanations and methodical approach separates this book from the rest. A clear winner in its category."**

**-Review on Amazon "Must have book for every IIT JEE aspirant! There are many solution books available in the market but this book is a class apart. Solutions are explained in detail. In many questions there are extra points which are beneficial for aspirants." - Review on Amazon Written by IITians, foreword by Dr HC Verma**

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**and appreciated by students as well as teachers. Two IITian have worked together to provide a high quality Physics problem book to Indian students. It is an indispensable collection of previous 41 years IIT questions and their illustrated solutions for any serious aspirant. The success of this work lies in making the readers capable to solve complex problems using few basic principles. The readers are also asked to attempt variations of the solved problems to help them understand the concepts better. The students can use the book as a readily available mentor for providing hints or complete solutions as per their needs. Key features of the book are: - Concept building by problem solving. The solutions reveals all**

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**the critical points. - 1400+ solved problems from IIT JEE. The book contains all questions and their solutions. - Topic-wise content arrangement to enables IIT preparation with school education. - Promotes self learning. Can be used as a readily available mentor for solutions.**

**Thoughtful Physics for JEE Mains & Advanced – Impulse and Momentum: has been designed in keeping with the needs and expectations of students appearing for JEE Main and Advanced. It explains all phenomena's through, reasons from principles, rather than by analogy and usually that reason is Physics. Its coherent presentation and compatibility with the latest prescribed syllabus and pattern of JEE will prove extremely**

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useful to JEE aspirants. Subject matter is kept simple but effective to strategically strengthen concepts as well as their applications to Problem Solving. Complete theory, series of solved & unsolved examples in varied situations final touch points for exam.

Super Course In Physics For The IIT-JEE: Mechanics I is a class-tested course content package for sure-shot success at the IIT-JEE. Each volume in this series is meticulously planned and structured to help the user imbibe and absorb concepts and apply them to IIT problems.

The key notes and questions present in this book have been tested by millions of IIT JEE students over the years. This book

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contains all the important and frequent ask concept which is drive from several notes an previous year paper of JEE, AIPMT, JIPMER, AIIMS/NEET and various state engineering and medical entrance examinations. Even a below average student can crack JEE after doing this book.

**Mechanics Part 1**

**Problems In General Physics**

**IIT-JEE Main & Advanced Chapter-Wise Solved Papers: 2005-2021**

**Physics (NCERT Based)**

**IIT-JEE Main and Advanced**

**Physics**

**Plancess Rank Accelerator Physics for IIT-JEE (Jee Main & Advanced)**

***This text book is primarily intended for students who are preparing for the entrance tests of IIT-JEE/NEET/AIIMS***

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***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***

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***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***

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***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***



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**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.**

**The new edition of IIT-JEE (Main & Advanced) PHYSICS is designed to present a whole package of Physics study preparation, sufficing the**

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**requirements of the aspirants who are preparing for the upcoming exam.; Highlights of the Book;**

- Exam Pattern and Physics Syllabus for JEE Main and Advanced included
- An Analysis of IIT JEE included
- Chapter-wise Theory detailed with 1000+ examples
- 5000+ Chapter-wise Multiple Choice Questions
- 2500+ Chapter-wise Different Format Questions
- Chapter-wise Assessment Test
- Chapter-wise HOTS Problems
- Experimental Skills from Class XI & XII Experiments
- Relativistic Mechanics, Appendix Tables & Glossary
- JEE-Main and Advanced Mock Test
- NEET Mock Test
- Answers to Questions

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***included with Explanations • Presence of accurate Figures and Tables Physics is a combination of experimenting, observation and the analysis of phenomena with mathematical and computational tools. Thus this book serves to be a suitable Study Guide for the aspirants, with focus on Qualitative Preparation and Systematic understanding of the Syllabus and Examination Level. With provision for self-assessment in Mock Tests, this book stands beneficial in imprinting concepts in the mind. Contains large number of Solved Examples and Practice***

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**Questions, Answers, Hints and Solutions have been provided to boost up the morale and increase the confidence level. Self Assessment Sheets have been given at the end of each chapter to help the students to assess and evaluate their understanding of the concepts.**

**Thoughtful Physics for JEE Mains & Advanced - Simple Harmonic Motion: has been designed in keeping with the needs and expectations of students appearing for JEE Main and Advanced. It explains all phenomena's through, reasons from principles, rather than by analogy and usually that**

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***reason is Physics. Its coherent presentation and compatibility with the latest prescribed syllabus and pattern of JEE will prove extremely useful to JEE aspirants. Subject matter is kept simple but effective to strategically strengthen concepts as well as their applications to Problem Solving. Complete theory, series of solved & unsolved examples in varied situations final touch points for exam***  
***11 Years Solved Papers IIT JEE Mains & Advanced 2021 Impulse and Momentum - Thoughtful Physics Target IIT JEE (A complete solution in physics) Class XI IIT JEE Physics***

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## **Mastering Physics for IIT-JEE Volume - I**

1. Understanding Physics Series Comprises of Total 5 Books 2. Total 36 Essential Chapters of Physics 3. Volume 1 is Mechanics Part -1 Consists 10 Chapters 4. Includes Last 6 Years Question of JEE Main & Advances 5. One of the Most Preferred Textbook for IIT JEE 6. Focused Study Material with Applications Solving Skills 7. Includes New Pattern of Question from recent previous Exams IIT JEE has become a worldwide brand in the engineering

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*institutions that has some of the best and brightest engineering students and career professionals. To make their way in this institution, every year lakhs of aspirants appear for IIT JEE Main and Advanced held by CBSE which tests the conceptual knowledge real-life application based problems on Physics, Chemistry, and Mathematics. Arihant's Understanding Physics is one of the best selling series of books in Physics, since its first edition for the preparation of JEE*

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*Entrance. The first volume of this series deals with Mechanics providing the in-depth discussions on the Motion in one and two dimensions, the laws of motion, Work Energy and Power and Circular.*

*Dividing the entire syllabus into 10 scoring Chapters, this book focuses on the concept building along with solidifying the problem-solving skills. It is a must have book for anyone who are desiring to be firm footed in the concepts of physics as well as their applications*



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*in problem solving. TOC  
Basic Mathematics,  
Measurements and Errors,  
Experiments, Units and  
Dimensions, Vectors,  
Kinematics, Projectile  
Motion, Law Motion, Work,  
Energy and Power, Circular  
Motion.*

*Physics for Joint Entrance  
examinations is designed  
to help aspiring IIT-JEE  
students - to develop  
their caliber, aptitude  
and to strengthen their  
grasp and understanding of  
concepts of physics and  
their applicability at the  
IIT-JEE level. Salient  
features: • Synopsis has*

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been given in the beginning of each Chapter for a quick Review just before the examination. • Includes chapter-wise solved papers from 2005–2020 with Answers and significant hints/solutions wherever essential. • Strictly based on the NCERT pattern • 5 set of mock tests is included along with the book to cross-check the preparation before the exam. Try to complete the mock test in one sitting is so that you can have the feeling of sitting in the examination hall.

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*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*

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*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,*

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*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,*

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*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 thee dots (???). Answer keys with hints and solutions are*

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provided at the end of the chapter.

IIT JEE Exam is considered one of the toughest entrance exam and lakhs of students apply for this exam, it can be qualified through solid practice, strong and clear concepts in all three subject. With a regular practice of this papers help students to get acquainted with the exam pattern, Type of questions, important topics which enhances the speed and efficiency. The revised edition of Arihant's "14 Years' Unsolved Question Papers

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*(2006-2019) IIT JEE (JEE MAIN & ADVANCED) ” has facilitated the students who are preparing the for this important entrance examination. This book provides the unsolved question papers so as to give the real the feel of the examination to the candidates and make them acquaintance with their strong and weak points and fill up their loop holes during their preparations. The unsolved papers help candidates to check their progress and facilitates learning. This book is considered to be best tool*



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*for getting success in the  
upcoming IIT JEE Exam*

*2020. TABLE OF CONTENT*

*Unsolved Questions Papers  
(2006-2019): IIT JEE 2006,  
IIT JEE 2007, IIT JEE  
2008, IIT JEE 2009, IIT  
JEE 2010, IIT JEE 2011,  
IIT JEE 2012, JEE Main &  
Advanced 2013, JEE Main &  
Advanced 2014, JEE Main &  
Advanced 2015, JEE Main &  
Advanced 2016, JEE Main &  
Advanced 2017, JEE Main &  
Advanced 2018, IIT JEE  
Advanced 2019.*

*11 Years Solved Papers IIT  
JEE Advanced & IIT JEE  
2022*

*A Problem Book In PHYSICS*

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*For IIT JEE*

*42 Years (1978–2019) JEE*

*Advanced (IIT–JEE) + 18*

*yrs JEE Main (2002–2019)*

*Topic-wise Solved Paper*

*Physics 15th Edition*

*Basic Principles of*

*Physics*

*Super Course in Physics*

*for the IIT–JEE: Mechanics*

*I*

**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 & Advanced for practice A**

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*common phrase among JEE Aspirants that chemistry is the most scoring subject, but the problems asked in JEE Exams are not directly related but they are based on multiple applications. Introducing the all new edition of "Problem Physical Physics JEE Main & Advanced Volume - 1" which is designed to develop the use of the concepts of chemistry in solving the diversified problems as asked in JEE. The book divides the syllabus into 8 chapters and each chapter has been topically divided in quick theory, different types of Solved Examination. At the end of each*

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*chapter there are 3 Levels; 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.*

*Cracking JEE Main & Advanced*

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*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*

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*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*

*Whenever a student decides to prepare for any examination, her/his first and foremost curiosity arises about the type*

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*of questions that he/she has to face. This becomes more important in the context of JEE Advanced where there is neck-to-neck race. For this purpose, we feel great pleasure to present this book before you. We have made an attempt to provide 44 Years IIT-JEE Physics chapter wise questions asked in IIT-JEE /JEE Advanced from 1978 to 2021 along with their solutions. Features Topic-wise collection of past JEE-Advanced question papers (1978-2021). Each chapter divides the questions into categories (as per the latest JEE Advanced pattern) - MCQ single correct*

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*answer, MCQ with multiple correct answers, Passage Based, Assertion-Reason, Integer Answer, Fill in the Blanks, True/False and Subjective Questions. Solutions have been given with enough diagrams, proper reasoning for better understanding. Students must attempt these questions immediately after they complete unit in their class/school/home during their preparation. Chapters - 44 Years IIT-JEE Physics Solved Papers (1978-2021) 1. Unit, Dimension & Error 2. Kinematics 3. Laws of Motion & Friction 4. Work, Power and Energy 5. Conservation Law*



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6. Rotational Motion 7. Gravitation 8. Simple Harmonic Motion 9. Properties of Matter & Fluid Mechanics 10. Wave Motion 11. Heat and Thermodynamics 12. Electrostatics 13. Current Electricity 14. Magnetic Effect of Current 15. Electromagnetic Induction and Alternating Current 16. Optics 17. Modern Physics 18. Model Test Papers

*Dialogue Concerning the Two New Sciences* was a 1632 bestselling book by Galileo Galilei which discussed the Copernican system and the traditional Ptolemaic system of the universe. In 1633, Galileo

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*was convicted of heresy because of the book. It was placed on the Index of Forbidden Books after his conviction.*

*Problems In Physics Mechanics  
JEE Main and Advanced*

*41 Years (1978-2018) JEE*

*Advanced (IIT-JEE) + 17 yrs JEE*

*Main Topic-wise Solved Paper*

*Physics 14th Edition*

**IIT-JEE-MAIN & ADVANCED**

**CHAPTER-WISE SOLVED**

**PAPERS: 2005-2020 PHYSICS**

**NCERT BASED (REVISED 2021)**

*Master this Chapter from Basic to Advance*

*S. Chand's Objective Physics*

*For IIT-JEE, AIEEE, AIIMS, AIPMT*

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**The new edition of IIT-JEE (Main and Advanced) Physics is designed to present a whole package of Physics study preparation, sufficing the requirements of the aspirants who are preparing for the upcoming exam.**

**Highlights of the Book • JEE Main and Advanced Solved Papers 2021 and 2020 included • Exam Patterns for JEE Main and Advanced included • An Analysis of IIT JEE included • Concepts are explained in detail •**

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**Chapters are compiled with Previous Years' Questions • Answers to Questions included with Explanations • Presence of accurate Figures and Tables • Five sets of Mock Tests are also included at the end • Based on pattern of NCERT Books 17 Years of IIT-JEE Chapter wise and; Topic wise Solved Papers PHYSICS' with Value with Value Added Notes covers the whole syllabus distributing in 24 Chapters. This book serves to be a suitable**

**Study Guide for the aspirants, with focus on Qualitative Preparation and Systematic understanding of the Syllabus and Examination Level. With provision for self-assessment in Mock Tests, this book stands beneficial in imprinting concepts in the mind. The book comprises chapters such as: • Physical World And Measurement • Laws Of Motions • Rotational Motions • Gravitation • Sound Waves • Current Electricity • Atomic Structure • Electronics**

**And Communication System and so on. 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**

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**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**

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Motion Problems

**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



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**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**

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**With ever changing pattern and syllabus, JEE Main and Advanced tests the conceptual knowledge of the aspirants by asking problems on the reallife 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 Volume 1" which has been thoroughly revised to reinforce foundations Mechanics in easy and effective manner. The revised edition of the book all the difficulties being faced by the students during preparation of JEE. This book provides 1. Entire syllabus in 10 chapters dealing with the foundations of the Mechanics 2. In depth**

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**discussion on the theories  
Motion in one and two  
dimension, Laws of  
Motions, Circular Motion  
3. Focus on concept  
building and problem  
solving 4. IIT JEE Main  
and Advanced Previous  
years' question to know  
the question pattern 5.  
Hints & Solutions for the  
complete conceptual  
clarity. TOC Chapter 1  
Basic Mathematics,  
Chapter 2 Measurements  
& Errors, Chapter 3  
Experiments, Chapter 4  
Units And Dimensions,  
Chapter 5 Vectors,**

**Chapter 6 Kinematics,  
Chapter 7 Projectile  
Motion, Chapter 8 Laws  
of Motion, Chapter 9  
Work, Energy and Power,  
Chapter 10 Circulation  
Motion, Hints and  
Solutions**

**• The book “42 Years IIT-  
JEE Advanced + 18 yrs  
JEE Main Topic-wise  
Solved Paper PHYSICS” is  
the first integrated book,  
which contains topic-wise  
collection of past JEE  
Advanced (including  
1978-2012 IIT-JEE &  
2013-19 JEE Advanced)  
questions from 1978 to**

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**2019 and past JEE Main (including 2002-2012 AIEEE & 2013-19 JEE Main) questions from 2002 to 2019. • The book provides 2 Sets of JEE Main 2019 (1 of each of the 2 Phases) & Paper 1 & 2 of JEE ADvanced 2019.**

- The book is divided into 17 chapters. The flow of chapters has been aligned as per the NCERT books.**
- Each chapter divides the questions into 9 categories (as per the NEW IIT pattern) - Fill in the Blanks, True/False, MCQ 1 correct, MCQ**

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**more than 1 correct,  
Passage Based, Assertion-  
Reason, Multiple  
Matching, Integer Answer  
and Subjective Questions.**

**• All the Screening and  
Mains papers of IIT-JEE  
have been incorporated in  
the book. • Detailed  
solution of each and every  
question has been  
provided for 100%  
conceptual clarity of the  
student. Well elaborated  
detailed solutions with  
user friendly language  
provided at the end of  
each chapter. • Solutions  
have been given with**

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**enough diagrams, proper reasoning to bring conceptual clarity. • The students are advised to attempt questions of a topic immediately after they complete a topic in their class/school/home. The book contains around 3380+ MILESTONE PROBLEMS IN Mathematics. Dialogues Concerning Two New Sciences 43 Years Chapterwise Topicwise Solved Papers (2021-1979) IIT JEE Physics CIRCULAR MOTION**



**44 Years IIT-JEE Physics  
Chapter Wise Solved  
Papers (1978 - 2021) By  
Career Point Kota  
IIT JEE**

*1. 43 Years' Chapterwise  
and Topicwise Solved  
papers for JEE Main &  
Advanced 2. The book is  
divided into 33 Chapters  
3. Ample Questions are  
given [2021-1979] for  
practice 4. JEE Advanced  
Solved Papers 2021 are  
provided to know the paper  
pattern Cracking one of  
the toughest examinations  
requires great deal of  
determination and efforts  
from the students that can*

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only be achieved from the previous year's solved papers, that provide complete idea of types of questions asked and pattern of paper. Prepared under the observation of the subject expert, the updated edition of 43 years' Chapterwise Topicwise Solved Papers [2021 -1979] of Physics is a one stop solution for the preparation of IIT JEE Mains and Advanced. Giving complete coverage to the syllabus, this book has been categorized under 33 chapters that are supplemented with good

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*number of questions of both JEE Mains and Advanced in Chapterwise and Topicwise manner. For further practice 'Previous Years' Solved Papers and Selected Questions of JEE advanced 2021' are given at the end of the book to help aspirants for the forthcoming exam. Table of Content General Physics, Kinematics, Laws of Motion, Work, Power and Energy, Centre of Mass, Rotation, Gravitation, Simple Harmonic Motion, Properties of Matter, Wave Motion, Heat and Thermodynamics, Optics,*

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*Current Electricity,  
Electrostatics, Magnetics,  
Electromagnetic Induction  
and Alternating Current,  
Modern Physics, JEE  
Advanced Solved Paper  
2021.*

*'11 Years' IIT JEE Solved  
Papers' provides solid  
practice, strong and  
strong grip on concepts  
Provides solved papers  
[2021-2011] IIT JEE (JEE  
Main & Advanced) for  
practice. Inculcates  
problem solving skills in  
students Step-by-step  
detailed solutions to  
questions in all three  
subjects Builds the*

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concept deeply from the basic level for better understanding Solved Papers of Previous Years' Questions uphold numerous advantages in cracking various entrances and competitive exams. A regular practice from well versed solved papers help students to get familiar with the exam pattern, its marking schemes, Question Types and Important topics, etc. The upcoming JEE Entrance has created an intense atmosphere for aspirants who are aiming to crack the exams. The newly revised edition of

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*“11 Years’ JEE Advanced & IIT JEE Solved Papers (2021 - 2012)” has been cautiously designed to improve the problem solving skills on the basis of which this cutting edge examination screens candidates. Enabling the in-depth conceptual understanding from the very basic level, this book provides a step by step solution for the questions. These features will help students develop greater focus in their preparation on important and frequently asked topics.*

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*This title contains an Access Code along with instructions to access the Online Material. In case you face any difficulty, write to us at [ebooks.support@aiets.co.in](mailto:ebooks.support@aiets.co.in). • The book "40 Years IIT-JEE Advanced + 16 yrs JEE Main/ AIEEE Topic-wise Solved Paper PHYSICS with Free ebook" is the first integrated book, which contains Topic-wise collection of past JEE Advanced (including 1978-2012 IIT-JEE & 2013-16 JEE Advanced) questions from 1978 to 2016 and past JEE Main*

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*(including 2002–2012 AIEEE & 2013–16 JEE Main) questions from 2002 to 2016. • The new edition has been designed in 2-colour layout and comes with a Free ebook which gives you the power of accessing your book anywhere - anytime through web and tablets. • The book is divided into 17 chapters. The flow of chapters has been aligned as per the NCERT books. • Each divides the questions into 9 categories (as per the NEW IIT pattern) - Fill in the Blanks, True/False, MCQ 1 correct,*



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*MCQ more than 1 correct, Passage Based, Assertion-Reason, Multiple Matching, Integer Answer MCQs and Subjective Questions. • All the Screening and Mains papers of IIT-JEE have been incorporated in the book. • Detailed solution of each and every question has been provided for 100% conceptual clarity of the student. Well elaborated detailed solutions with user friendly language provided at the end of each chapter. • Solutions have been given with enough diagrams, proper reasoning*

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to bring conceptual clarity. • The students are advised to attempt questions of a topic immediately after they complete a topic in their class/school/home. The book contains around 3200+ **MILESTONE PROBLEMS IN PHYSICS**. How does the **FREE** ebook help? • Provides the **Digital** version of the book which can be accessed through tablets and web in both online and offline mediums. • Also provides the **AIEEE Rescheduled 2011** paper and **1997 IIT-JEE** cancelled paper. • **Alternate Solutions to a**

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*number of Questions. •  
Quick Revision Material.  
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*

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*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  
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**questions that are being asked in the Physics, Chemistry and Mathematics. It enables the candidates to understand the concept deeply from the very basic level. This book is considered to be best tool for getting success in the upcoming IIT JEE Exam 2020.**

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**Section A** The syllabus contains two sections- A and B, Section - A pertains to the Theory Part having 80% weightage, while Sections - B contains practical components (Experimental Skills) having 20 % Weightage. **JEE Mains Physics Syllabus Section B** Sometimes questions from experimental skills (which is SECTION-B) can also be asked in the JEE, we have provided the syllabus for the same. 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

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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

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**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**

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**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.**

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• The book “41 Years IIT-JEE Advanced + 17 yrs JEE Main/ AIEEE Topic-wise Solved Paper PHYSICS” is the first integrated book, which contains topic-wise collection of past JEE Advanced (including 1978-2012 IIT-JEE & 2013-18 JEE Advanced) questions from 1978 to 2018 and past JEE Main (including 2002-2012 AIEEE



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Preparing for IIT JEE (Main & Advanced) already creates an intense atmosphere among students who are appearing in it. This revised edition of '11 years Solved Papers [2010 -2020] IIT JEE (Mains &

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Advanced) ' is cautiously designed to improve the problem-solving skills in students. As the name of the book suggests, these previous years ' solved papers from 2010 to 2020 provides thorough practice. Detailed step by step solutions and guidance to the analytical, theoretical and calculative questions of Physics, Chemistry and Mathematics, enables aspirants an in-depth conceptual understanding for the topic that help them to answer correctly on time. With the help of these Years Solved papers, this book helps to build trust for getting success out of upcoming IIT JEE Exam 2021.

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