

# HOW TO ACE JEE

## ADVANCED



6 Vols of

Advanced Physics by

**PRADEEP  
AGARWAL**  
(IIT KANPUR)



Study 6 Vols of  
Advanced Physics  
to Ace JEE



2000

Only 0.1% get to  
choose desired  
Course and IIT



2 Lac

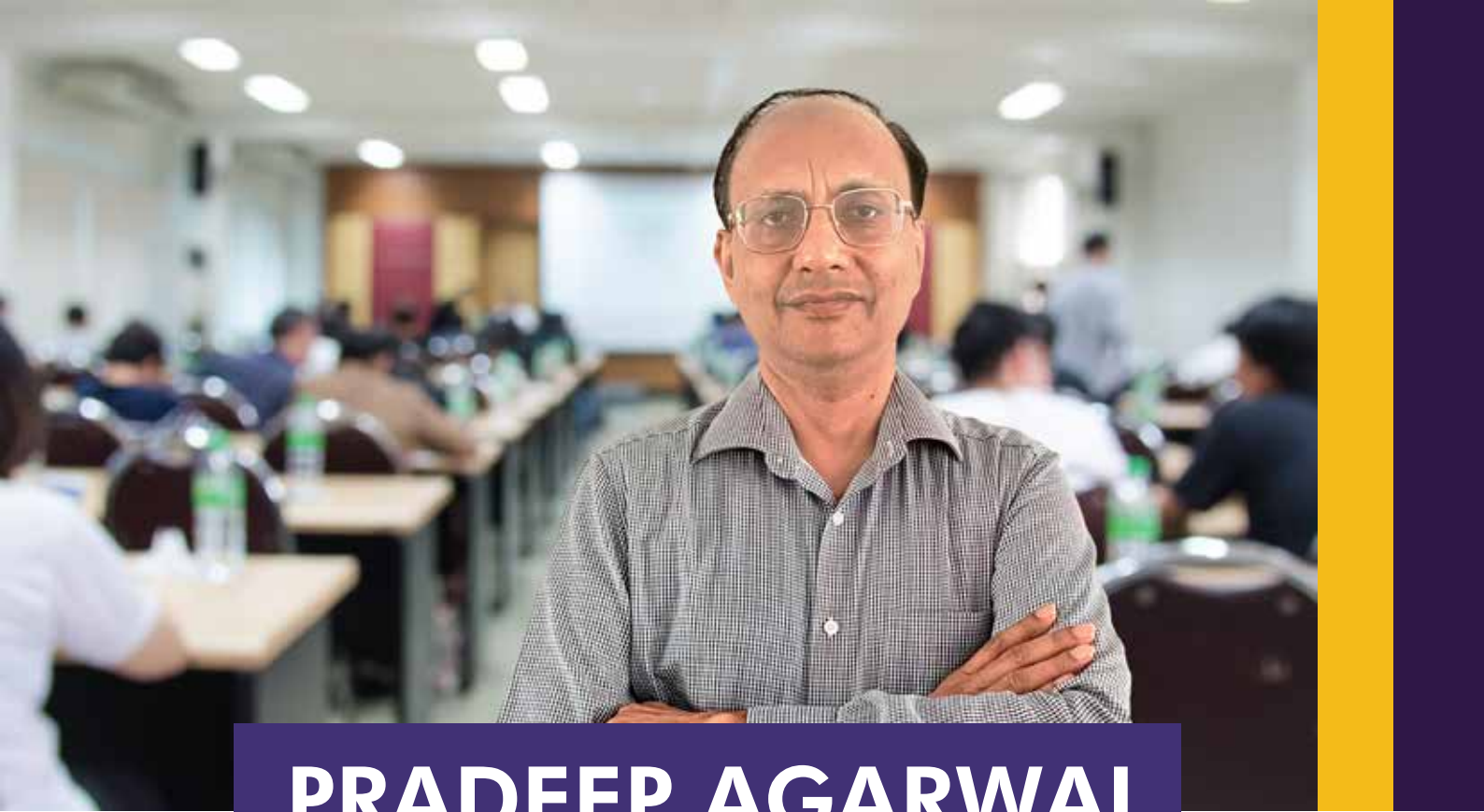
Only 10% Qualify  
for JEE Advanced



20 Lac+

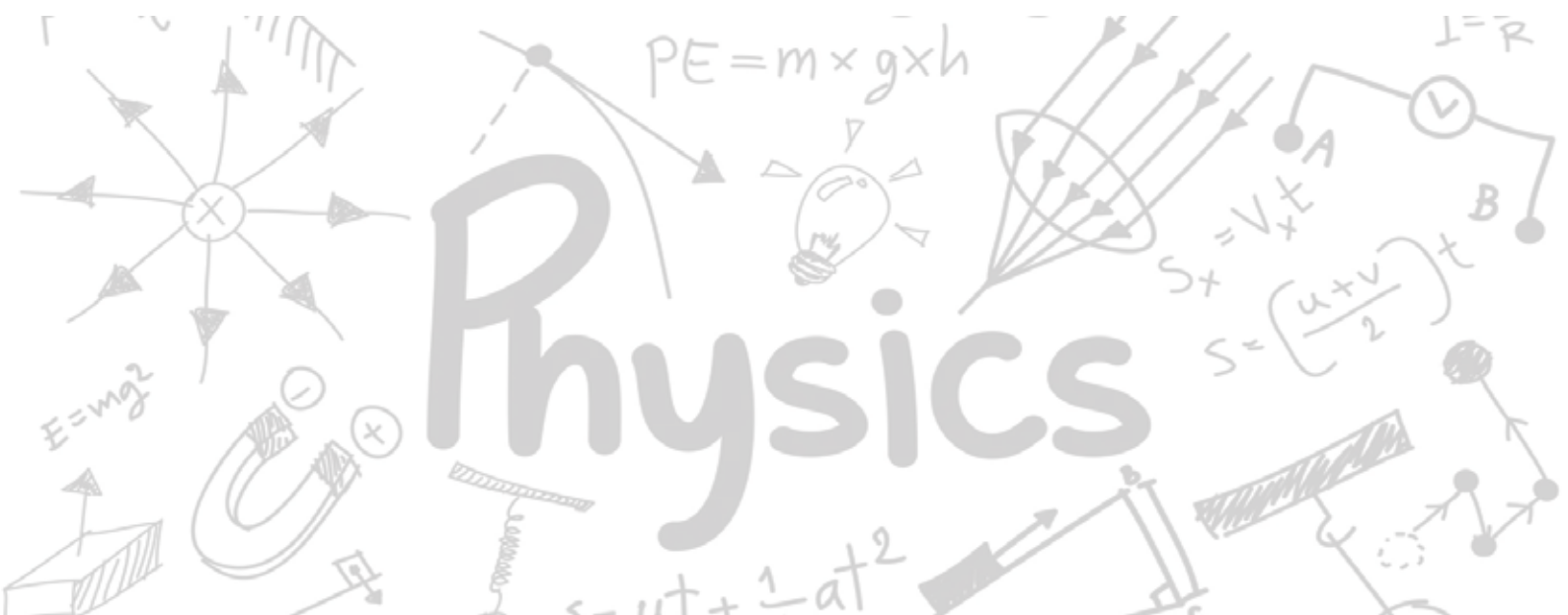
Many students  
aspire for IIT





# PRADEEP AGARWAL

Born to a Delhi University professor, I was blessed with simple upbringing with high morals, ethics and values. I schooled in Delhi, secured high rank at IIT JEE and completed B. Tech from IIT Kanpur in 1987. We are a family of Engineers, my son as well as my daughter both secured high rank in JEE advanced and I thoroughly enjoyed teaching my children and other students to crack IIT.



# My inspiration to Write 6 Volumes of Physics for JEE Advanced

Study of Physics has been my heart's calling and passion. After a decade of working in Corporate sector and reading the available popular books on Physics for competitive exams especially JEE Advanced, I felt the need for better treatment of Topics covered in the syllabus. Students could benefit from a deeper Analysis of seemingly difficult concepts in Physics if explained in a simplified manner. With growing competition, I undertook Research in Physics to present complex topics in an easy and efficient way.

I have now, over 20 years of experience teaching for JEE Advanced and other competitive exams.

With help of my teaching methodology, My own children and my many other students cracked JEE Advanced with good ranks. It took me 10 years of painstaking effort to assimilate best techniques (hacks) that are captured in the 6 Volumes.

I have focused on Applied knowledge of Physics by giving special treatment to all Topics required for JEE Mains and Advanced and also prepared Examples | Exercises (Questions & Tests) that help students hone their skills to Ace JEE Advanced.

I have thoroughly enjoyed completing the 6th Book and given comprehensive coverage to all Topics with solutions to problems using the best possible approach. I wish to now empower readers of my 6 Volumes with deep understanding of each topic and develop skills in attempting JEE Mains and JEE Advanced.

To boost confidence of Students, I have created sections called Important Tips and graded exercises. My intent is to help students find all knowledge in 6 Volumes, not having to search for study material elsewhere.

While shaping these books, I have maintained focus on Fast and Accurate application of Concepts of Physics to make Students develop skills to attempt maximum questions in JEE Advanced in allotted time and secure their desired dream of a High Rank.

# Can Journey to IIT be Relaxed & Fun? How does one Relieve Stress and Pressure?

A high score in Physics can help and journey to IIT can be real fun. Being relaxed will improve chances of success so students must take it easy (not casual). Systematic & Planned preparation is required to achieve success.

The current generation of Students attempting JEE have better exposure and access to information, Competition is increasing rapidly and dramatically creating a need for the books also to be aligned and structured to make a student learn in the most efficient manner.

The concepts, examples and exercises need to be graded (medium to high) difficulty and the solutions must be presented using a better approach. This would allow students to be determined to set new standards and benchmarks while competing and qualifying for High Ranks.

# Highlights of 6 Vols of Advanced Physics by Pradeep Agarwal



Comprehensive syllabus covered in 6 Volumes prepares students for JEE Mains | JEE Advanced and for other Top Engineering Colleges.



Studying from these books makes students conceptually strong and topics easy to understand.



Unique treatment to each topic is reflective of deep study and 10 years research in the preparation of these books.



Complete and sufficient in itself, makes one self-confident in Physics



Helps students develop creative thinking and an analytical mind by giving quick methods for advanced problem solving



Focus on sound and alternative approaches to solve problems with Speed & Accuracy.

## Some Nuggets to crack JEE Advanced

1

Practice helps overcome mistakes, High Rank in JEE requires problems solving correctly very 1st Time and in least time.

**2** Speed improves by using Best Technique, concepts analysis and application with a clear mind.

**3** A recommended step wise approach

- First complete the NCERT level including all derivations
- Practice all problems of JEE Main level
- Finally practice all problems of JEE Advanced level.





# Structure of Books

To help Students learn fundamentals with ease and build concepts quickly, theory presented is

- Simple
- Lucid
- Easy to understand
- With illustrations
- With important tips

Assignments with Lots of Solved Examples are arranged systematically topic wise and in two levels of difficulty.

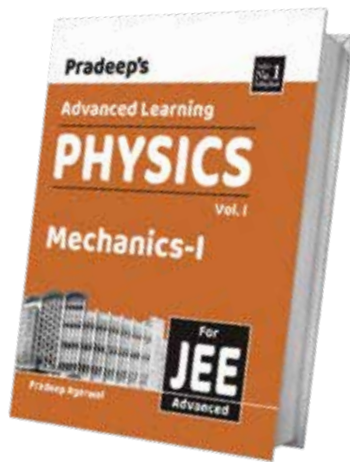
**Level 1** - JEE Mains,

**Level 2** - JEE Advanced

Following types of MCQ's are provided at the end of each chapter.

- MCQ's having one correct answer
- MCQ's having one or more than one correct answer
- MCQ's based on paragraph
- MCQ's based on matrix matching
- MCQ's based on assertion and reasoning
- MCQ's based on integer type

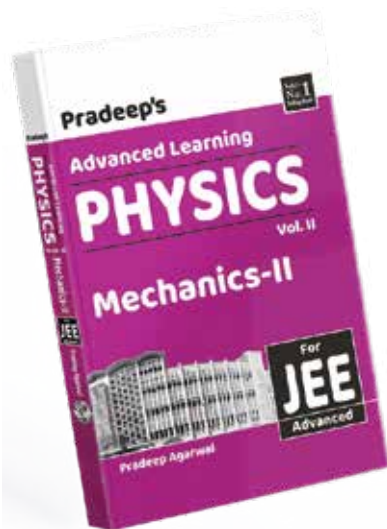
Includes MCQ's with Solutions from previous years JEE Main and JEE Advanced



## Mechanics – I – Vol I

Covers Units, Dimensions, Errors, Vectors, Kinematics, Laws of Motion, Work, Energy and Power

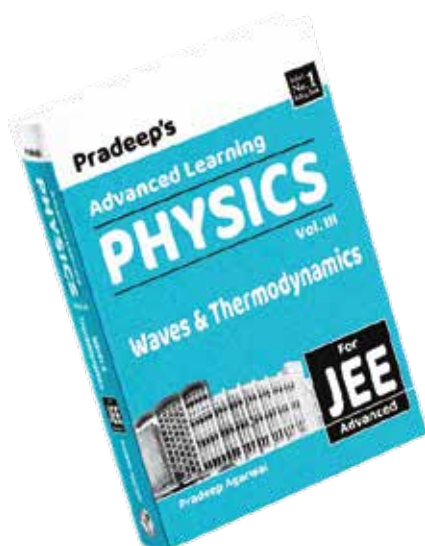
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## Mechanics –II – Vol II

Covers Centre of Mass, Collisions, Rotation Motion, Gravitation, Solids and Fluid Mechanics

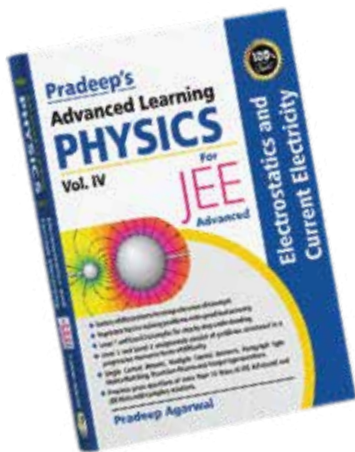
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## Waves & Thermodynamics – Vol III

Covers Simple Harmonic Motion, Wave Motion, Thermal Properties of Matter and Thermodynamics

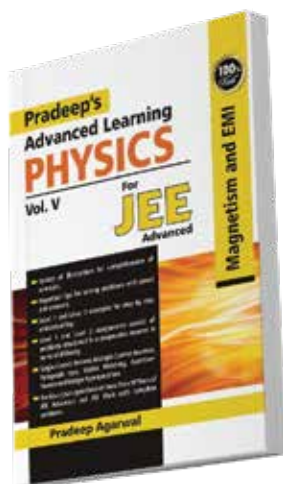
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## Electrostatics and Current Electricity – Vol IV

Covers Electric Field and Potential, Electric Current and Capacitors

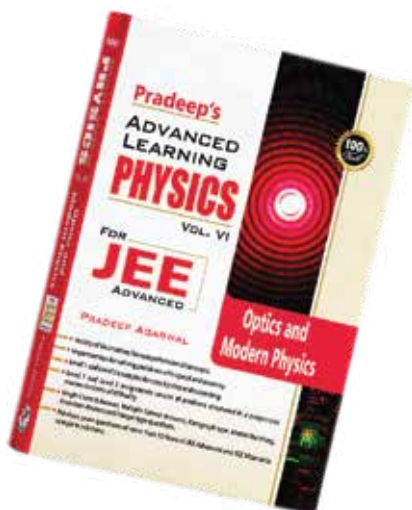
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## Magnetism and EMI – Vol V

Covers Moving Charges & Magnetism, Electromagnetic Induction and Alternating Current....

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## Optics and Modern Physics – Vol VI

Covers Geometrical Optics, Wave Optics, Atomic Physics, Nuclear Physics, Photoelectric Effect and X-Rays

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# PRADEEP AGARWAL

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