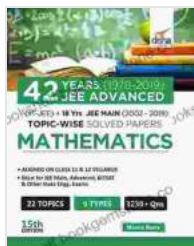# 42 Years (1978-2024) JEE Advanced (IIT-JEE) & 18 Years (2002-2024) JEE Main: Topic-Wise Analysis

The Joint Entrance Examination (JEE) is one of the most competitive engineering entrance exams in India. It is conducted by the National Testing Agency (NTA) for admission to undergraduate engineering programs at the Indian Institutes of Technology (IITs),National Institutes of Technology (NITs),and other centrally funded technical institutions.

The JEE is divided into two parts: JEE Main and JEE Advanced. JEE Main is the first stage of the JEE and is taken by over 10 lakh students each year. The top 2.5 lakh students in JEE Main are eligible to take JEE Advanced.

42 Years (1978-2024) JEE Advanced (IIT-JEE) + 18 yrs JEE Main (2002-2024) Topic-wise Solved Paper Mathematics 15th Edition [eBook] by Viki Winterton

★★★★☆ 4.1 out of 5

Language	: English
File size	: 39000 KB
Print length	: 407 pages
Screen Reader	: Supported

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JEE Advanced is the second stage of the JEE and is taken by about 1.5 lakh students each year. The top 10,000 students in JEE Advanced are offered admission to the IITs.

The JEE syllabus is vast and covers a wide range of topics from mathematics, physics, and chemistry. In this article, we will provide a topic-wise analysis of the JEE syllabus for the past 42 years (1978-2024) for JEE Advanced (IIT-JEE) and 18 years (2002-2024) for JEE Main.

Mathematics

Mathematics is the most important subject in the JEE syllabus. It accounts for 50% of the total marks in JEE Main and 60% of the total marks in JEE Advanced. The following table shows the distribution of topics in mathematics for JEE Advanced and JEE Main:

Topic	JEE Advanced	JEE Main
Algebra	30%	40%
Calculus	30%	30%
Geometry	20%	20%
Coordinate Geometry	10%	10%
Trigonometry	10%	-

As you can see, algebra is the most important topic in mathematics for both JEE Advanced and JEE Main. Calculus and geometry are also important topics, but they are less important than algebra. Coordinate geometry and trigonometry are the least important topics in mathematics for JEE Advanced and JEE Main, respectively.

Physics

Physics is the second most important subject in the JEE syllabus. It accounts for 30% of the total marks in JEE Main and 40% of the total marks in JEE Advanced. The following table shows the distribution of topics in physics for JEE Advanced and JEE Main:

Topic	JEE Advanced	JEE Main
Mechanics	40%	50%
Electricity and Magnetism	25%	20%
Optics	15%	15%
Modern

Physics | 10% | 10% | | Thermodynamics | 5% | 5% |

As you can see, mechanics is the most important topic in physics for both JEE Advanced and JEE Main. Electricity and magnetism, optics, and modern physics are also important topics, but they are less important than mechanics. Thermodynamics is the least important topic in physics for both JEE Advanced and JEE Main.

Chemistry

Chemistry is the least important subject in the JEE syllabus. It accounts for 20% of the total marks in JEE Main and 30% of the total marks in JEE Advanced. The following table shows the distribution of topics in chemistry for JEE Advanced and JEE Main:

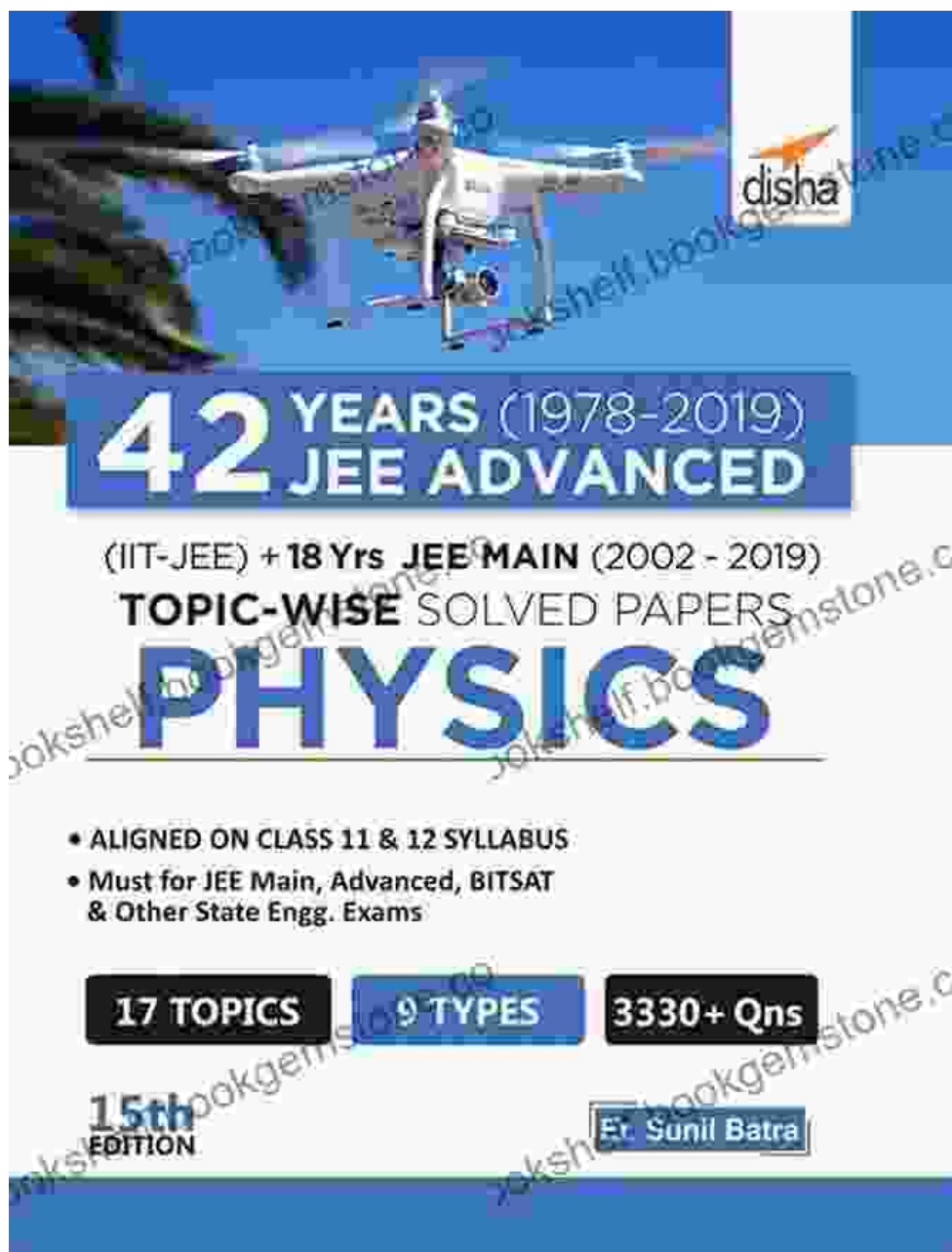| Topic | JEE Advanced | JEE Main | |---|---|---| | Inorganic Chemistry | 30% | 40% | | Organic Chemistry | 30% | 30% | | Physical Chemistry | 20% | 20% | | Quantitative Analysis | 10% | - |

As you can see, inorganic chemistry is the most important topic in chemistry for both JEE Advanced and JEE Main. Organic chemistry and physical chemistry are also important topics, but they are less important than inorganic chemistry. Quantitative analysis is the least important topic in chemistry for JEE Advanced and is not tested in JEE Main.

The JEE is a very competitive exam and it is important to be well-prepared for it. By understanding the topic-wise distribution of the syllabus, you can focus your studies on the most important topics.

We hope that this article has been helpful. If you have any questions, please feel free to leave a comment below.

Additional Resources

- NTA website

- JEE Main website

- JEE Advanced website

- Toppr JEE Main guide

- Toppr JEE Advanced guide

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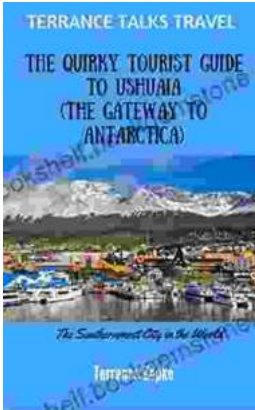★★★★☆   4.1 out of 5

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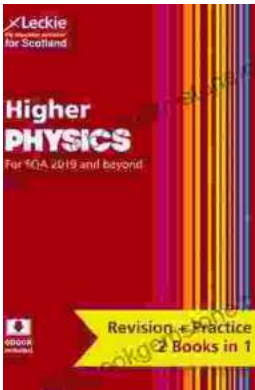Print length   : 407 pages
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