



# **SAT II: Physics (REA) - The Best Test Prep for the SAT II (SAT PSAT ACT (College Admission) Prep)**

*D. K. Bross, M. H. Farmer, M. L. Lemley, L. Weathers*

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Master the SAT II Physics Subject Test and score higher... Our test experts show you the right way to prepare for this important college exam. REA's SAT II Physics Subject test prep covers all Physics topics to appear on the actual exam including in-depth coverage of vectors, kinetic theory, mechanics, magnetism, and more. The book features 5 full-length practice SAT II Physics exams. Each practice exam question is fully explained to help you better understand the subject material. Use the book's glossary for speedy look-ups and smarter searches.

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- Comprehensive review of every physics topic to appear on the SAT II subject test
- Flexible study schedule tailored to your needs
- Packed with proven test tips, strategies and advice to help you master the test
- 5 full-length practice SAT II Physics Subject exams. Each exam question is answered in complete detail with easy-to-follow, easy-to-grasp explanations.
- The book's glossary allows for quicker, smarter searches of the information you need most

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**About Research & Education Association**

Research & Education Association (REA) is an organization of educators, scientists, and engineers specializing in various academic fields. Founded in 1959 with the purpose of disseminating the most recently developed scientific information to groups in industry, government, high schools, and universities, REA has since become a successful and highly respected publisher of study aids, test preps, handbooks, and reference works.

REA's Test Preparation series includes study guides for all academic levels in almost all disciplines.

Research & Education Association publishes test preps for students who have not yet completed high school, as well as high school students preparing to enter college. Students from countries around the world seeking to attend college in the United States will find the assistance they need in REA's publications. For college students seeking advanced degrees, REA publishes test preps for many major graduate school admission examinations in a wide variety of disciplines, including engineering, law, and medicine. Students at every level, in every field, with every ambition can find what they are looking for among REA's publications.

While most test preparation books present practice tests that bear little resemblance to the actual exams, REA's series presents tests that accurately depict the official exams in both degree of difficulty and types of questions. REA's practice tests are always based upon the most recently administered exams, and include every type of question that can be expected on the actual exams.

REA's publications and educational materials are highly regarded and continually receive an unprecedented amount of praise from professionals, instructors, librarians, parents, and students. Our authors are as diverse as the fields represented in the books we publish. They are well-known in their respective disciplines and serve on the faculties of prestigious high schools, colleges, and universities throughout the United States and Canada.

**ABOUT THE TEST**

The SAT II: Physics Subject Test is developed by the College Board and administered by Educational Testing Service (ETS). The test development process involves the assistance of educators throughout the United States, and is designed and implemented to ensure that the content and difficulty level of the test are appropriate.

Although some colleges require SAT II: Subject Tests as part of their admissions process, most colleges use

the scores from the SAT II: Subject Test for student placement purposes. Test scores are used as a means of determining a student's aptitude for a particular course of study.

The SAT II: Subject Test in Physics is one hour in length and consists of 75 multiple-choice questions. These questions are designed to measure your knowledge of physics and your ability to apply that knowledge. The general difficulty level of the test is designed for students who have taken a one-year introductory course in high school physics. To assist you in preparing for the exam, the College Board has provided the following list of exam topic percentages: mechanics (34-38% of exam); electricity and magnetism (22-26%); waves (15-19%); heat, kinetic theory, and thermodynamics (8-12%); modern physics (8-12%); miscellaneous (measurement, math skills, laboratory skills, history of physics, 2-4%). Concept application percentages are also provided: recall (20-33%); single-concept problem (40-53%); multiple-concept problem (20-33%).

Primarily, the test assesses your knowledge and understanding of the most significant concepts in physics and your ability to apply that knowledge. Laboratory experience will contribute to your understanding of some of the questions on the test. Since the mathematical calculations are limited to simple algebraic, trigonometric, and graphical relationships, students are not permitted to use electronic calculators or slide rules during the test. For the majority of the test, metric units are used.

For information on upcoming administrations of the exam, consult the publication *Taking the SAT II: Subject Tests*, which can be obtained from your guidance counselor or by contacting:

College Board SAT II Program  
P.O. Box 6200  
Princeton, NJ 08541-6200  
Phone: (609) 771-7600  
Website: [www.collegeboard.org](http://www.collegeboard.org)

## **ABOUT THE REVIEW**

The topical review in this book is designed to refresh your knowledge and further your understanding of the test material. It includes problem-solving techniques you can use to enhance your scores on the exam. Also included in the review are extensive discussions and examples to sharpen your skills in physics. Topics covered in the review include:

- Vectors and Scalars*
- Mechanics*
- Electricity and Magnetism*
- Waves and Optics*
- Physical Optics*
- Heat, Kinetic Theory, and Thermodynamics*
- Modern Physics*

## **SCORING THE TEST**

When you take the actual Physics Test, your test will be scored electronically by a scanning machine. For each correct answer, you will receive one point. For each incorrect answer, you will lose one-fourth of a point. This method compensates for random guessing. Unanswered questions will not be counted.



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