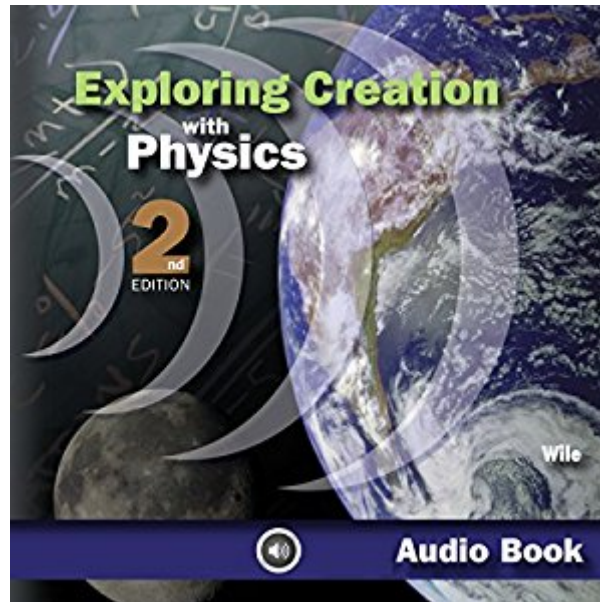




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Exploring Creation With Physics



Synopsis

This college-prep physics course is designed for the student who has completed algebra and has had an introduction to the definitions of sine, cosine, and tangent. It provides a detailed introduction to the methods and concepts of general physics. Heavily emphasizing vector analysis, this text is ideal preparation for a university-level physics course. It provides the student with a strong background in one-dimensional and two-dimensional motion, Newton's laws and their application, gravity, work and energy, momentum, periodic motion, waves, optics, electrostatics, electrodynamics, electrical circuits, and magnetism.

Book Information

Audible Audio Edition

Listening Length: 19 hours and 50 minutes

Program Type: Audiobook

Version: Unabridged

Publisher: Apologia Educational Ministries

Audible.com Release Date: May 4, 2012

Language: English

ASIN: B0080AEOC2

Best Sellers Rank: #16 in Books > Audible Audiobooks > Children's Books > Science & Nature
#43 in Books > Audible Audiobooks > Science > Physics #428 in Books > Christian Books & Bibles > Theology > Apologetics

Customer Reviews

Very good book on physics. Wish there was a teachers manual explaining the answers.

I tutor and teach homeschool kids, primarily math up through calculus. The students we deal with at one location use this text. Not being familiar with it I thought I would independently work through the problems, since I might have to tutor kids who use it. Let me explain. I have a Physics degree (45 years ago). Wow. How I wished I had used this book in my highschool back in the 60's ! It is a little wordy, but that is a good thing. A parent or homeschool kid could probably teach themselves with this book, without a teacher ! This is the perfect textbook for homeschoolers, or anyone else who has not had a first course in physics.

This is what I wanted

This textbook was specifically designed for homeschooling families, so the whole package assumes that a person is doing the experiments out of their home and that they may or may not have access to a physics teachers. Many other science textbooks assume that a teacher is available and leave out the details. The whole curriculum package includes the textbook, solutions and test manual, CD that demonstrates physics concepts and the lab experiments, and a DVD that contains 20 hours of lectures as well as the demonstration of all the lab experiments. One can also buy a science supply kit that contains all of the materials needed to conduct the experiments in this book from various distributors on the internet. As for the content, this book covers all of the topics that are included in the AP Physics 1 Algebra Based test (1st semester). This book does NOT cover most of the materials for the AP Physics 2 Algebra Based test (2nd semester). The AP board expects that AP Physics 1 Algebra would be taught over a whole school year, so this book does cover a year of lab based physics. There are 16 modules, but only 14 of them are included in the AP Physics 1 Algebra test. If a module takes approximately 2 weeks to complete estimating one hour each day, it would take 28 weeks to complete this curriculum. The AP test is at the beginning of May, so there is plenty of time to complete the material for the AP test without overexerting yourself. The last two modules (optics and magnetism) can be covered after the AP exam, so the whole book is completed. The Advanced Physics with Creation (next physics book in this series) is a Calculus based curriculum, so someone is looking for the material for the AP Physics 2 Algebra Based are going to have to go with a different publisher. The AP Physics 1 Algebra based test expects explanations for the answers, not just the answers. This lack of explanation of the answers is the reason why a lot of students don't do well on this AP test. The solution manual for this book provides very detailed explanations of the answers. If the student follows the example of the solutions manual from this series, the student should do fine on the AP Physics 1 test. As for Christianity in the book, the only reference to Christianity that I found in the book was in the biographies of the scientists like Galileo. Essentially it just says that Galileo started to study science, because he wanted to get a better understanding of G-d. In other words, Galileo did not have a conflict with studying science and G-d, and in fact Galileo believed that by studying science he was getting a better understanding of G-d.

The book is in excellent condition.

My highschool science education consisted of the Apologia science texts by Jay Wile. As a Freshman in mechanical engineering who has passed two semesters of college-level calculus

based physics with straight A pluses, I highly recommend this physics text. Thanks to the education I received from this course, I found that I was consistently ahead of my public school counterparts in terms of already having a good understanding of the concepts, throughout both semesters of college physics. This text provides an excellent starting point for anyone wanting to pursue a degree in any of the physical sciences.

I've used my share of science textbooks that seem to be written in another language. They make explanations foggy, boring and overly complicated, and as a result, you tear out enough of your hair to make a fortune at your local wig shop. Using THIS course has been a pleasure. Dr. Wile makes very clear explanations of the important concepts of physics, and even those who don't take to sciences very well can pick it up quickly. The text is written in such a way that it seems like a tutor is sitting at the table with you helping you through it. In this way, Dr. Wile has masterfully created an easily understandable physics course, yet does not make it any less comprehensive than an AP course book. My only complaint is the EXPERIMENTS. I realize that homeschoolers don't always have access to the same kinds of lab equipment used in normal physics classes, but holy cow! In the module that covers sound and light waves, there is an experiment where the student is asked to have a parent drive a car down the road, towards and away from you, BLASTING THE HORN to test the Doppler effect, no doubt to the extreme annoyance of your neighbors. There's got to be another way to do it! Nevertheless, even the experiments are perfectly adequate to demonstrate physical concepts, however bizarre they may appear. I highly recommend this course to any homeschooling family, or teachers looking for a course to use in a class setting.

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