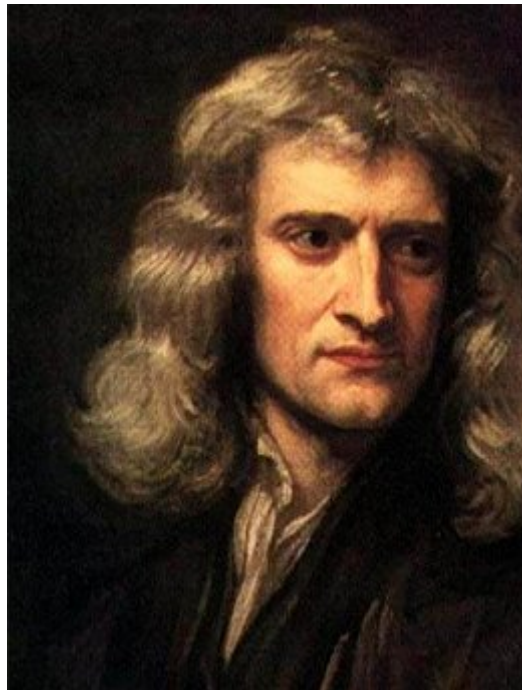


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THE MATHEMATICAL PRINCIPLES OF NATURAL PHILOSOPHY (Illustrated And Bundled With LIFE OF SIR ISAAC NEWTON)



Synopsis

The book has an active table of contents for readers to access each chapter, PROPOSITION, PROBLEM, LAW, LEMMA, and SCHOLIUM of the following two books in an easy way: 1) THE MATHEMATICAL PRINCIPLES OF NATURAL PHILOSOPHY 2) LIFE OF SIR ISAAC NEWTON. The key contribution of Newton to the modern science and engineering was the book THE MATHEMATICAL PRINCIPLES OF NATURAL PHILOSOPHY. THE MATHEMATICAL PRINCIPLES OF NATURAL PHILOSOPHY is also called Principia. Book I of the Principia details the foundations of the science of mechanics. Book II inaugurates the theory of fluids. Book III shows the law of gravitation at work in the universe. Newton also discovered measurable, mathematical patterns in the phenomenon of color through his book Opticks. He published it in 1704 and Opticks established Newton as a pioneer of the interweaving of pure theory with quantitative experimentation. In mathematics too, Newton made contributions to all branches of mathematics then studied and his solutions to the contemporary problems in analytical geometry of drawing tangents to curves (differentiation) and defining areas bounded by curves (integration). He discovered general methods of resolving problems of curvature, embraced in his "method of fluxions" and "inverse method of fluxions", respectively equivalent to Leibniz's later differential and integral calculus. Newton's contribution to Enlightenment was also profound. His conception of the Universe based upon Natural and rationally understandable laws became one of the seeds for Enlightenment ideology. John Locke and François-Marie Arouet applied concepts of Natural Law to political systems advocating intrinsic rights; Adam Smith applied Natural conceptions of psychology and self-interest to economic systems. According to the very popular story, Newton figured out that the same force governed the motion of the Moon and the apple when he was on seeing an apple fall in his orchard in 1666. The story inspired millions of young minds around world to explore natural law of governing the Universe. Newton said: If I have seen further it is by standing on the shoulders of giants. This book is for those by standing on Newton's shoulder to explore the world in any fields without fear.

Book Information

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Customer Reviews

This is one of those books where you can get all the information contained therein from other sources. It is a difficult read in that it was written in the language of the 16th century. However, it is stunning. Follow the math which begins with geometry and evolves into calculus. Not as a learning progression but as a necessity. At times, Newton seems almost apologetic when establishing his scenarios and problems. Almost as if he knows you can't possibly understand his intent! This book, along with The Principia, ranks as one of the very first applications of the scientific method. With all due respect to Copernicus, Galileo and many others; Newton was THE intellectual giant of the Renaissance. We are all forever in his debt.

I wanted to get an idea of why Newton discovered/created the calculus framework. I was more interested in the problems he was trying to solve than the explicit descriptions of the math problems. The dated English is hard to decipher at times but its worth reading through at least once. Its a bit dry and a bit slow but it does something most present math books don't do; this book explains why.

I got this for my kindle, it is an awesome book. it is amazing the knowledge of mathematics Newton had. for the price it's gets five stars. the content five stars as well. if your liking for this book then you probably have some idea of how deep it is in terms of mathematical understanding. either way great book.

Other than a brief encyclopedia-style introduction, not much has been done to make this book accessible to a layman or non-mathematician. It is translated to English from Latin, but otherwise

lacks liner notes to explain the text. It was written for the Royal Society of England and for suitably trained mathematicians and scientists in Europe, not for the casual reader, which I pretty much am. I don't recommend it for the beach.

This is a wonderful book. I had barely began reading and already discovered Newton was laying down the basic principles of velocities required for orbital speed as well as escape from the earth's gravitational pull.

No sense in actually reviewing the content of this text as it is undoubtedly one of the most important ever, but this particular printed version is very nice.

It is a great science book. An well worth the price for the kindle. It is a steel for the price of 2 dollars. An explain everything very well. Classical book worth the time and money to read.

A lot of classic understanding at a meager price, indeed. How could you rate Isaac Newton less than 5 stars. Add this to your library.

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