

The Theoretical Minimum: What You Need to Know to Start Doing Physics

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A Wall Street Journal Best Book of 2013

A world-class physicist and a citizen scientist combine forces to teach Physics 101-the DIY way

The Theoretical Minimum is a book for anyone who has ever regretted not taking physics in college-or who simply wants to know how to think like a physicist. In this unconventional introduction, physicist Leonard Susskind and hacker-scientist George Hrabovsky offer a first course in physics and associated math for the ardent amateur. Unlike most popular physics books-which give readers a taste of what physicists know but shy away from equations or math-Susskind and Hrabovsky actually teach the skills you need to do physics, beginning with classical mechanics, yourself. Based on Susskind's enormously popular Stanford University-based (and YouTube-featured) continuing-education course, the authors cover the minimum-the theoretical minimum of the title-that readers need to master to study more advanced topics.

An alternative to the conventional go-to-college method, The Theoretical Minimum provides a tool kit for amateur scientists to learn physics at their own pace.

Leonard Susskind has been the Felix Bloch Professor in theoretical physics at Stanford University since 1978. The author of *The Cosmic Landscape* and *The Black Hole War*, he is a member of the National Academy of Science and the American Academy of Arts and Sciences, and the recipient of numerous prizes including the science writing prize of the American Institute of Physics for his *Scientific American* article on black holes. He lives in Palo Alto, California.

George Hrabovsky is a hacker-physicist in Wisconsin involved in as citizen science, or the community of individuals who do science at home. Since May 1999 he has been the president of Madison Area Science and Technology (MAST), a nonprofit organization dedicated to scientific and technological research and education. He lives in Madison, Wisconsin. *Scientific American's* Cocktail Party Physics blog

It's clear, insightful, and designed for those hardcore physics fans who've read all the popular treatments and now might be interested in moving out of the armchair into the real action of actually engaging in theoretical physics."

Science Blogs: Built on Facts

[A] charming and erudite instance of a genre with very few members a pop-physics book with partial differential equations on a good fraction of the pages . More impressive still is that the book entirely resists the temptation to skip to the good stuff quantum mechanics and so on. This is a book which is purely about classical mechanics . [S]ucceeds admirably in its goal. It presents classical mechanics in all its glory, from forces to Hamiltonians to symmetry and conservation laws, in a casual but detailed style."

Physics World

Very readable. Abstract concepts are well explained .[The Theoretical Minimum] provide[s] a clear description of advanced classical physics concepts, and gives readers who want a

challenge the opportunity to exercise their brain in new ways."

Wall Street Journal, Best Books of 2013

Every minute of our lives is now dependent on technology, yet the wonders of basic science are foreign to many of us. Everyone who remembers even a bit of math should read this inviting and accessible account of what you need to know to start doing physics."

Wall Street Journal

So what do you do if you enjoyed science at school or college but ended up with a different career and are still wondering what makes the universe tick?... Leonard Susskind and George Hrabovsky's *The Theoretical Minimum* is the book for you. In this neat little book the authors aim to provide the minimum amount of knowledge you need about classical physics to gain some real understanding of the world. They do so with great success. Along the way you get beautifully clear explanations of famously difficult things like differential and integral calculus, conservation laws and what physicists mean by symmetries. Messrs. Susskind and Hrabovsky's book is a powerful exposition of why science is real and a counter to the kind of wishful thinking employed by people who, for whatever reason, reject the scientific worldview."

Physics Today

A pleasure to read, a beautiful, high-level overview of the entire subject."

Other Books

QUANTUM PHYSICS FOR BEGINNERS, ? Do you want to learn about quantum physics but don't know how to get started? If yes, then keep reading! Get Ready to Discover the secrets of the universe with this practical, user-friendly guide to Quantum Physics! ? Quantum Physics is the study of how the smallest parts of matter behave on a microscopic level. One major concern in Quantum Physics is predicting what we see on a macroscopic level. This is done by using quantum mechanics, which considers the parts that are too small to measure. Whenever something interacts with another object, such as when an atom or photon impacts another particle, it transfers some energy from its original state to its new state. This energy that is transferred from a Quantum's original state to its new state is called quantum energy, or E-Q. Inside this ultimate guide, you'll discover: What Is Quantum Physics And Quantum Mechanics? How Was Quantum Physics Discovered? What Are Particles Of Light? Principle Of Uncertainty The Schrodinger's Cat Quantum Possibilities And Waves "Dark Body" Spectrum Understanding The Curve Of The Black Body An Introduction To The Strings Theory Made Easy For Beginners The Black Holes ...and much more! Even if you think it's too complex a subject, you don't need to be a scientist or mathematician to appreciate the world of quantum physics. This book is intended to reveal to you the incredible universal laws that govern reality by reducing complexity and math to a minimum. So don't be scared of complex math, as this Quantum Physics for Beginners book is for you! This definitive guide will take you by the hand and help you enter the world of quantum physics in an easy way. ? Your friends will be impressed by your knowledge of these concepts that are so complex for ordinary people! ? Are you ready to dive into the world of quantum physics and get started? Then scroll up and click the BUY NOW button!

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reality by reducing complexity and math to a minimum. So don't be scared of complex math, as this Quantum Physics for Beginners book is for you!"