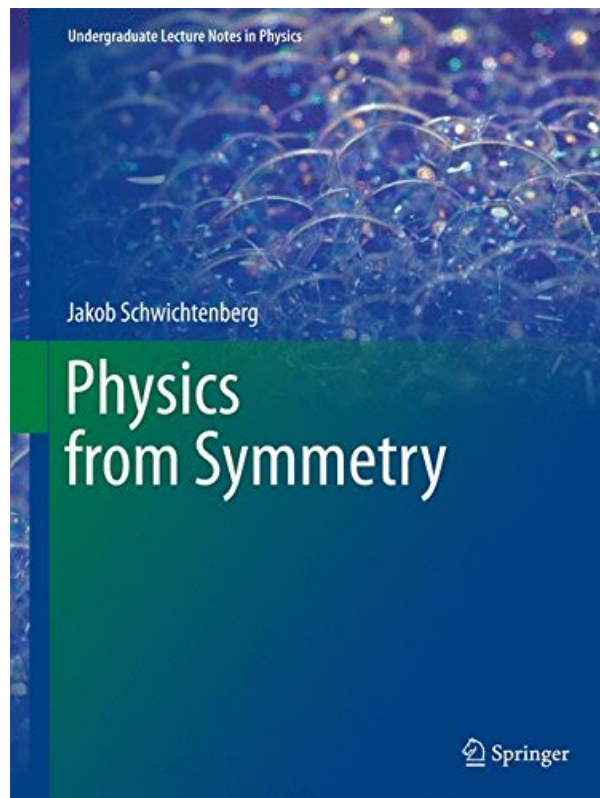
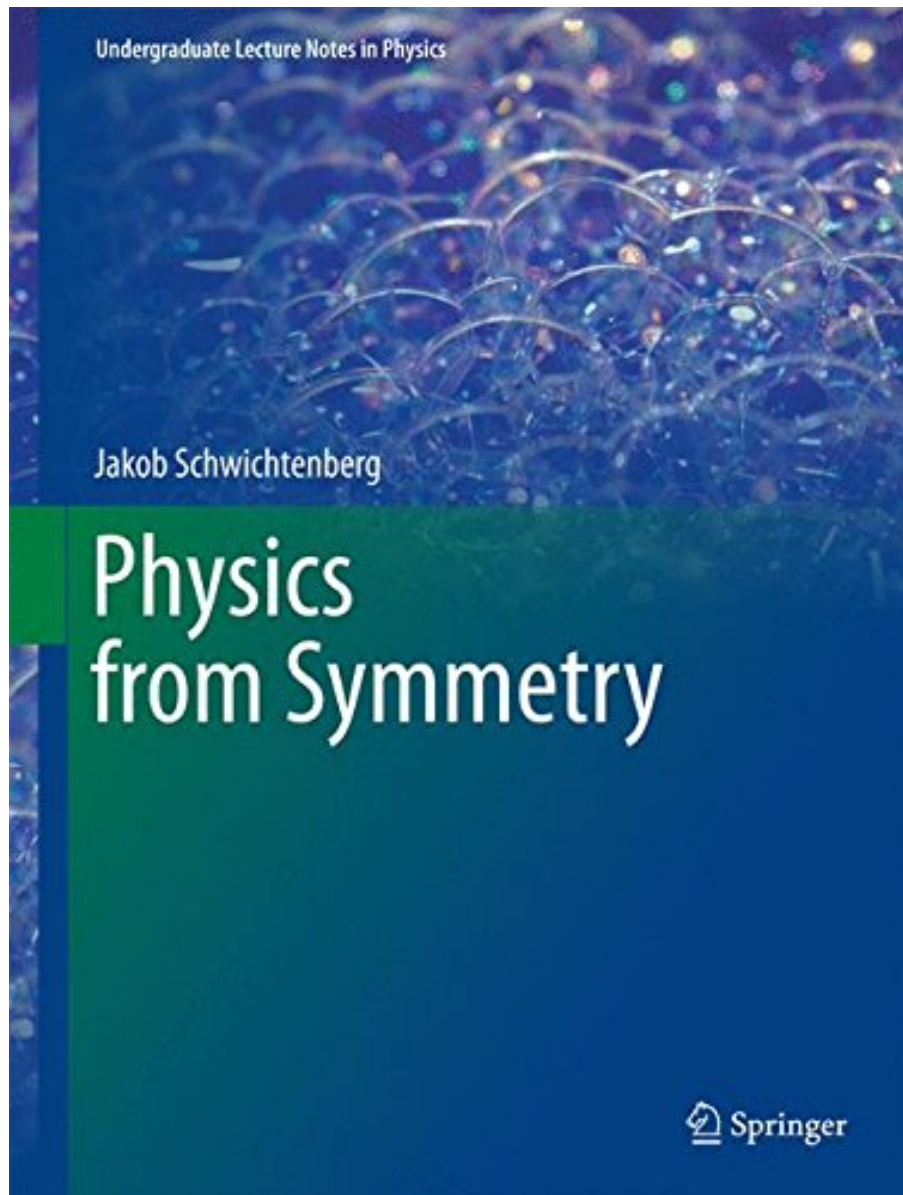


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Review

The main purpose of this book is to present an updated modern approach to physical theories through symmetry methods. This book describes rather well the not always easy to understand subject of symmetry methods in physics, and will be a valuable addition to the bibliography for any interested reader, and even for the expert. (Rutwig Campoamor-Stursberg, zbMATH 1330.81005, 2016)"

From the Back Cover

This is a textbook that derives the fundamental theories of physics from symmetry.

It starts by introducing, in a completely self-contained way, all mathematical tools needed to use symmetry ideas in physics. Thereafter, these tools are put into action and by using symmetry constraints, the fundamental equations of Quantum Mechanics, Quantum Field Theory, Electromagnetism, and Classical Mechanics are derived.

As a result, the reader is able to understand the basic assumptions behind, and the connections between the modern theories of physics. The book concludes with first applications of the previously derived equations.

About the Author

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Jakob Schwichtenberg, Karlsruhe, Germany

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By toonsoldier

Undergraduates, today and in the future, are so lucky to have this book. It's the book I wish I had as an undergraduate, it would have saved a lot of time and misplaced effort. Future undergraduates will not have to experience the frustration of trawling through various dense texts, on topics within this new book, but were written for a much more advanced reader.

The book's author has done a great job of defining the mathematical tools and drawing together the various strands using symmetry ideas in an almost conversational style but without any loss of rigor. Jakob has a wonderful way of describing and simplifying a seemingly complex notion, although that will be of no surprise to those who follow his mathematics and physics blog at jakobschwichtenberg.com.

Once a reader has read, and studied, the book they will be in the fantastic position of being able to read and understand some of the higher level texts and science papers on topics that follow on from the book.

This new text is easily the best book on, symmetry and physics, at this level; in fact I think it's the best book on any topic at undergraduate level period! Jakob should be rightly proud in producing such an excellent book at his first attempt. I'm really looking forward to see what he produces in the future.

22 of 26 people found the following review helpful.

Nice try, but no cigar.

By Amazon Customer

Although I applaud the general intent of this book, the result is of such erratic quality that I simply cannot recommend it. First off, the book is packed with typos and errors. It doesn't appear to have been proof-read by any competent reviewer. Then, the author has adopted a great deal of idiosyncratic notation, offered without clear explanation, and not used in a consistent manner. And most damaging, the book fails to clearly separate discussion of Lie Groups from the discussion of Lie Algebras. The two concepts are defined but then completely blurred in the subsequent text. The discussion is heavy on manual derivations of commutation relations and representations - which is good to see. But all that has been done more clearly and efficiently many times over the past 125 years.

14 of 16 people found the following review helpful.

Very nice entry for unexperienced students, some new point of view for advanced readers.

By Vinotan

I've read this book in preparation for my bachelors theo. physics exam, mainly because I had no clue concerning Lie-Theory and most other books were overly formal and complicated.

This book gives very easy and intuitive access to the main idea of group theory with very little assumptions made and knowledge required.

I quite enjoyed the way this book was written, so I kept reading the following chapters, even if they weren't necessarily relevant for my exam (Theory of relativity) or I've already learnt those topics (Quantum mechanics) and it was worth it, because the book offers some nice connections between Lagrangian- and Quantum Physics using symmetric deliberation.

That said, one must notice that this book is kept as compact as possible (which is prob. necessary since it covers and connects so many topics) and is thus no complete coverage of each particular topic on its own.

If you have a exam about only Quantum Physics next week and only time to read one book, you prob. should

better read a standard textbook,
but if you are looking for a deeper understanding and the link between things, or if you just started your studies and want an intuitive introduction into the world of physics using Symmetry - this is the perfect book for you.

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