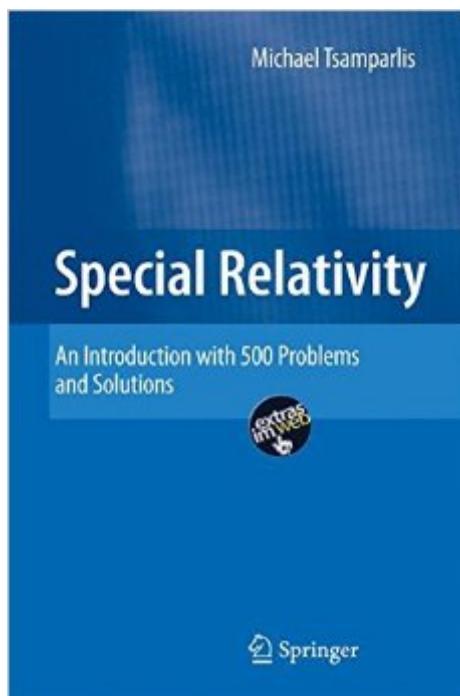


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# Special Relativity: An Introduction With 200 Problems And Solutions



## Synopsis

Writing a new book on the classic subject of Special Relativity, on which numerous important physicists have contributed and many books have already been written, can be like adding another epicycle to the Ptolemaic cosmology. Furthermore, it is our belief that if a book has no new elements, but simply repeats what is written in the existing literature, perhaps with a different style, then this is not enough to justify its publication. However, after having spent a number of years, both in class and research with relativity, I have come to the conclusion that there exists a place for a new book. Since it appears that somewhere along the way, mathematics may have obscured and prevailed to the degree that we tend to teach relativity (and I believe, theoretical physics) simply using *œ*heavierâ• mathematics without the inspiration and the mastery of the classic physicists of the last century. Moreover current trends encourage the application of techniques in producing quick results and not tedious conceptual approaches resulting in long-lasting reasoning. On the other hand, physics cannot be done *à la carte* stripped from philosophy, or, to put it in a simple but dramatic context A building is not an accumulation of stones! As a result of the above, a major aim in the writing of this book has been the distinction between the mathematics of Minkowski space and the physics of relativity.

## Book Information

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## Customer Reviews

This book is by far the most comprehensive book on special relativity. Actually mathematical framework and notations is treated with such style that transition to general relativity is straight forward. Mathematics is explained really well and there are whole chapters explaining physical

aspects of the theory. This book covers all the topics that a particle physicists or frankly every physicist must be at home with. Most books on special relativity do not cover important aspects of special relativity in enough depth as to make a student at home with special relativity. This is sad as without internalizing the physics of special/general relativity and quantum mechanics, NO one can think as "real physicist" can. This book is remarkable in that it covers so many aspects of special relativity with sound mathematical treatment that is understandable and most importantly makes one at home with special relativity. It goes beyond what others book covered. Even more profoundly the solved problems and solutions are excellent and make a book an ideal tool for self learning.

Excellent book with a fair price. The author approaches the subject in a complete way (it means, perfect). That's an indispensable book for all Mathematics and Physics students.

Very good book, also covers 4-vectors in-depth.

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