



The Geometry of Special Relativity

Tevian Dray

Download now

[Click here](#) if your download doesn't start automatically

The Geometry of Special Relativity

Tevian Dray

The Geometry of Special Relativity Tevian Dray

The Geometry of Special Relativity provides an introduction to special relativity that encourages readers to see beyond the formulas to the deeper geometric structure. The text treats the geometry of hyperbolas as the key to understanding special relativity. This approach replaces the ubiquitous γ symbol of most standard treatments with the appropriate hyperbolic trigonometric functions. In most cases, this not only simplifies the appearance of the formulas, but also emphasizes their geometric content in such a way as to make them almost obvious. Furthermore, many important relations, including the famous relativistic addition formula for velocities, follow directly from the appropriate trigonometric addition formulas.

The book first describes the basic physics of special relativity to set the stage for the geometric treatment that follows. It then reviews properties of ordinary two-dimensional Euclidean space, expressed in terms of the usual circular trigonometric functions, before presenting a similar treatment of two-dimensional Minkowski space, expressed in terms of hyperbolic trigonometric functions. After covering special relativity again from the geometric point of view, the text discusses standard paradoxes, applications to relativistic mechanics, the relativistic unification of electricity and magnetism, and further steps leading to Einstein's general theory of relativity. The book also briefly describes the further steps leading to Einstein's general theory of relativity and then explores applications of hyperbola geometry to non-Euclidean geometry and calculus, including a geometric construction of the derivatives of trigonometric functions and the exponential function.



[Download The Geometry of Special Relativity ...pdf](#)



[Read Online The Geometry of Special Relativity ...pdf](#)

Download and Read Free Online The Geometry of Special Relativity Tevian Dray

From reader reviews:

Pamela Bradley:

The book The Geometry of Special Relativity can give more knowledge and also the precise product information about everything you want. Why must we leave the best thing like a book The Geometry of Special Relativity? A few of you have a different opinion about reserve. But one aim which book can give many facts for us. It is absolutely correct. Right now, try to closer along with your book. Knowledge or info that you take for that, it is possible to give for each other; you could share all of these. Book The Geometry of Special Relativity has simple shape however, you know: it has great and massive function for you. You can search the enormous world by available and read a book. So it is very wonderful.

Kelly Cohn:

Do you one among people who can't read satisfying if the sentence chained inside the straightway, hold on guys this aren't like that. This The Geometry of Special Relativity book is readable by you who hate the perfect word style. You will find the details here are arrange for enjoyable looking at experience without leaving perhaps decrease the knowledge that want to provide to you. The writer regarding The Geometry of Special Relativity content conveys objective easily to understand by most people. The printed and e-book are not different in the written content but it just different available as it. So , do you nonetheless thinking The Geometry of Special Relativity is not loveable to be your top listing reading book?

Harry Branham:

Do you have something that you want such as book? The book lovers usually prefer to opt for book like comic, quick story and the biggest the first is novel. Now, why not seeking The Geometry of Special Relativity that give your fun preference will be satisfied by simply reading this book. Reading practice all over the world can be said as the method for people to know world much better then how they react towards the world. It can't be explained constantly that reading routine only for the geeky individual but for all of you who wants to possibly be success person. So , for every you who want to start studying as your good habit, you can pick The Geometry of Special Relativity become your starter.

Marline Deluca:

Do you like reading a e-book? Confuse to looking for your preferred book? Or your book has been rare? Why so many question for the book? But virtually any people feel that they enjoy regarding reading. Some people likes looking at, not only science book but in addition novel and The Geometry of Special Relativity or even others sources were given understanding for you. After you know how the great a book, you feel want to read more and more. Science publication was created for teacher or students especially. Those textbooks are helping them to include their knowledge. In various other case, beside science book, any other book likes The Geometry of Special Relativity to make your spare time a lot more colorful. Many types of book like this one.

**Download and Read Online The Geometry of Special Relativity
Tevian Dray #OFBJ5VH6UQW**

Read The Geometry of Special Relativity by Tevian Dray for online ebook

The Geometry of Special Relativity by Tevian Dray Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Geometry of Special Relativity by Tevian Dray books to read online.

Online The Geometry of Special Relativity by Tevian Dray ebook PDF download

The Geometry of Special Relativity by Tevian Dray Doc

The Geometry of Special Relativity by Tevian Dray MobiPocket

The Geometry of Special Relativity by Tevian Dray EPub