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Starting on page 53 discussing clock synchronization, figure 2-1 illustrates simultaneous lightning strikes in two frames, one resting and the other moving. Signal motion in the rest frame is ballistic while in the moving frame it is absolute.

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The following textbooks are required or strongly recommended.

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Relativity. New York,  
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This book gives an excellent introduction to the theory of special relativity. Professor Resnick presents a fundamental and unified development of the subject with unusually clear discussions of the aspects that usually trouble beginners. He includes, for example, a section on the common sense of relativity.

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Simply repeats what is written in the existing literature, perhaps with a different style, then this is not enough to justify its publication.

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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 “ heavier ”

mathematics without the inspiration and the mastery of the classic physicists of the last century. Moreover

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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 r-ativity.

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exposition of relativity theory on the basis of the constancy of the speed of light. Using Einstein's signal velocity as the defining idea for the notion of simultaneity and the fact that the speed of light is independent of the motion of its source, chapters delve into a qualitative exposition of the relativity of time and



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high school and college students learning about special relativity for the first time. It will appeal to the reader who has a healthy level of enthusiasm for understanding how and why the various results of special relativity come about. All of the standard introductory topics in special relativity are covered:

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Problems, along with the discussions in the text, will be a valuable resource in any course on special relativity. The numerous examples also make this book ideal for self-study. Very little physics background is assumed (essentially none in the first half of the book). An intriguing aspect of special relativity is that it is

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Relativity due to its inherent strangeness, as opposed to a heavy set of physics prerequisites. Likewise for the math prerequisite: calculus is used on a few occasions, but it is not essential to the overall flow of the book.

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from electrons as their  
energy is progressively  
increased, and this leads  
directly to the relativistic  
expressions for mass,  
momentum and energy  
of a particle.

Collaboration on the  
First Edition of  
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when Edwin Taylor took a junior faculty sabbatical at Princeton University where John Wheeler was a professor. The resulting text emphasized the unity of spacetime and those quantities (such as proper time, proper distance, mass) that are invariant, the same for all observers, rather than those quantities

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(such as space and time separations) that are relative, different for different observers. The book has become a standard introduction to relativity. The Second Edition of Spacetime Physics embodies what the authors have learned during an additional quarter century of teaching and research. They have updated the

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philosophical point of view, are interested in the theory, but who are not conversant with the mathematical apparatus of theoretical physics. ”

While the theory of relativity enriched astronomy and physics during the 20th century, technology today is getting ahead because of Einstein. Relativity: The Special and the General

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worked as a clerk before stepping into the world of technology. He became an American citizen in 1940 and taught at Princeton University. His work on the photoelectric effect won the Nobel Prize for Physics in 1921, and later became the basis of tremendous developments in quantum theory and

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