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Introduction to Special Relativity: Resnick, Robert ...

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IOAN INTRODUCTION TO THE SPECIAL THEORY OF RELATIVITY purpose here to emphasize the importance of the choice of a

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coordinate frame in physics, though clearly the choice has far broader implications in the affairs of men. The logical choice of a coordinate frame to Newton was one in which the stars were at rest. There are some physicists today

An Introduction to the Special Theory of Relativity

Abstract. It is the purpose of this book to provide an introduction to the Special Theory of Relativity which is accessible to any student who has had an introduction to general physics and some slight acquaintance with the calculus. Much of the material is at a level suitable for high school students who have had advanced placement in physics and mathematics.

"An Introduction to the Special Theory of Relativity" by ...

Resnick, Robert. Introduction to Special Relativity. New York, NY: Wiley, 1968. ISBN: 9780471717256. (required) French, Anthony Philip. Special Relativity. New York, NY: Norton, 1968. ISBN: 9780393097931. (required) Einstein, Albert A. Relativity: The Special and the General Theory. New York, NY: Three Rivers Press/Random House, 1995. ISBN: 9780517884416.

Syllabus | Introduction to Special Relativity | Physics ...

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.

Introduction to Special Relativity by Robert Resnick and ...

and energy were to be understood. These principles, and their consequences constitute the Special Theory of Relativity. Later, Einstein was able to further develop this theory, leading to what is known as the General Theory of Relativity. Amongst other things, this latter theory is essentially a theory of gravitation.

Lecture Notes on Special Relativity

In physics, the special theory of relativity, or special relativity for short, is a scientific theory regarding the relationship between space and time. In Albert Einstein 's original treatment, the theory is based on two postulates:

Special relativity - Wikipedia

Special relativity includes only the special case (hence the name) where the motion is uniform. The motion it explains is only if you're traveling in a straight line at a constant speed. As soon as you accelerate or curve — or do anything that changes the nature of the motion in any way — special relativity ceases to apply. That's where ...

Einstein's Special Relativity - dummies

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- E. Taylor and J. Wheeler, Spacetime Physics (Freeman, 1992) [*]. A good introduction to special relativity.
- R. D'Inverno, Introducing Einstein's Relativity (Oxford, 1992) [**]. A book I haven't looked at very carefully, but it seems as if all the right topics are covered without noticeable ideological distortion.

Lecture Notes on General Relativity

In physics, special relativity SR, also known as the special theory of relativity or STR is the generally accepted and experimentally well confirmed physical theory regarding the relationship between space and time. In Einstein's original pedagogical treatment, it is based on two postulates: 1 that the laws of physics are invariant i.

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