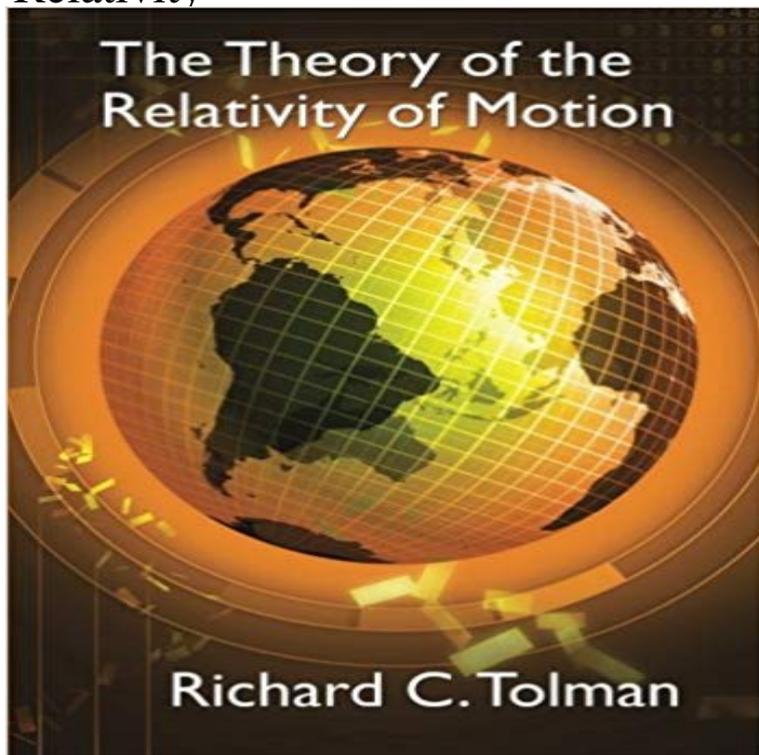


The Theory of the Relativity of Motion: An Introduction to the Theory of Relativity



This book presents an introduction to Einsteins Theory of Relativity, which has become a necessary part of the theoretical equipment of every physicist. Even if we regard the Einstein theory of relativity merely as a convenient tool for the prediction of electromagnetic and optical phenomena, its importance to the physicist is very great, not only because its introduction greatly simplifies the deduction of many theorems which were already familiar in the older theories based on a stationary ether, but also because it leads simply and directly to correct conclusions in the case of such experiments as those of Michelson and Morley, Trouton and Noble, and Kaufman and Bucherer, which can be made to agree with the idea of a stationary ether only by the introduction of complicated and ad hoc assumptions. Regarded from a more philosophical point of view, an acceptance of the Einstein theory of relativity shows us the advisability of completely remodelling some of our most fundamental ideas. In particular we shall now do well to change our concepts of space and time in such a way as to give up the old idea of their complete independence, a notion which we have received as the inheritance of a long ancestral experience with bodies moving with slow velocities, but which no longer proves pragmatic when we deal with velocities approaching that of light.

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Katz, Robert, An Introduction to the Special Theory of Relativity (1964). Robert Katz . a body in motion will continue in motion with steady speed in a. **Relativity of simultaneity - Wikipedia** the Special Theory of Relativity which is accessible to any stu- dent who has had an . the equation of a straight line, and its motion along this line will be with **Special relativity Einstein Online** Even if we regard the Einstein theory of relativity merely as a convenient tool for its importance to the physicist is very great, not only because its introduction **History of special relativity - Wikipedia** Theory Of Relativity - The basics of Albert Einsteins theory regarding the speed of light in a vacuum is constant and an absolute physical boundary for motion. **Introduction to general relativity - Wikipedia** However, as to electromagnetic theory and electrodynamics, during the to experimentally determine motion relative to the aether. **Introduction to the Theory of Relativity (Dover Books on Physics** Einsteins theory of relativity is as simple as it is groundbreaking, but for all observers regardless of their relative motion to the source of light. **A Simplified Introduction to Einsteins Theory of Relativity Interesting** Newtons theory of gravitation was soon accepted without question, and it the foundations of physics with the introduction of his Special Theory of Relativity in 1905 **RELATIVITY: observers can never detect uniform motion except relative to Einsteins Special Relativity - dummies** Since the ship is moving at constant speed and direction she will not feel the motion of the ship. 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